

बिलासपुर विश्वविद्यालय, बिलासपुर (छत्तीसगढ़)

BILASPUR VISHWAVIDYALAYA, BILASPUR (CHHATTISGARH) (Established by Chrattisgarh Legislative Assembly Act No. 07 of 2012) पुराना हाईकोर्ट भटन, गांधी चौक के पास, बिलासपुर (छ.ग.) 495001 फोन : 07762-220031,220032,220033 फैक्स 07752-260294 देवसाईट : www.bilaspuruniversity.ac.in ई फा : bilaspur.university2012@gmail.com

क 9.70/परीक्षा/2017 प्रति

विज्ञासपुर, दिनाक 23/01/2017

प्राच्चार्य,

रुमस्त सम्बद्ध महाविद्यालय,

बिलासपुर विश्वविद्यालय, बिलासपुर (छ.ग.)

विषय:- बी.ए./बी.एससी. में निर्धारित समूह के अनुसार विषयों का चयन करने बाबत।

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विषयांतर्गत सन्न 2016–17 में बिलासपुर विश्वविद्यालय की स्नातक स्तर पर बी.ए. एवं बी. एससी. प्रथम वर्ष, द्वितीय वर्ष में अध्ययनरत नियमित/स्वाध्यायी/भूतपूर्व पर्राक्षार्थियों से निर्धारित पाठ्यक्रमानुसार/विषय समूह के अनुसार ही विषयों का चयन करना अनिवायें है।

बी.ए. भाग-01 में संलग्न अध्यादेश की कंडिक (6) B के अनुसार 6 विषय समूह में से, किन्ही 3 विषय समूह का चयन करना है तथा चयन किये गये विषय समूह में से प्रत्येक समूह से केवल एक विषय का चयन करना है अर्थात केवल 3 विषयों का चयन करना है। अनिवार्य विषय – हिन्दी भाषा, अंग्रेजी भाषा एवं पर्यावरण अध्ययन है। (अध्यादेश की प्रति संलग्न है।)

<u>बी एस सी भाग-01</u> में संलग्न अध्यादेश की कंडिका (6) ii ने उल्लेखित विषय समूह के अनुसार केवल एक विषय समूह का चयन करना अनिवार्य है। अनिवार्य विषय – हिन्दी भाषा, अंग्रेजी भाषा एवं पर्यावरण अध्ययन है। (अध्यादेश की प्रति संलग्न है।)

रनातक स्तर में हितीय एवं तृतीय वर्ष में विषय समूह/विषय में परिवर्तन मान्य नहीं होगा। अर्थात् जिस विषय समूह/विषयों का चयन स्नातक स्तर के प्रथम वर्ष में किया गया है, केवल उसी विषय समूह/विषयों का अध्ययन/चयन स्नातक स्तर के द्वितीय एवं तृतीय वर्ष में करते हुए परीक्षा में सम्मिलित होना अनिवार्य है।

अतः अनुरोध है कि उपरोक्त अध्यादेश के प्रावधानानुसार नियमित/स्वाध्यायी परीक्षार्थियों के परीक्षा आवेदन विश्वविद्यालय को अग्रेषित करना सुनिश्चित करें। अन्यथा की स्थिति में परीक्षार्थियों को विश्वविद्यालय द्वारा परीक्षा में सम्मिलित होने से वचित किया जा सकता है। कृपया इस पत्र की एक प्रति महाविद्यालय की सूचना पटल पर परीक्षार्थियों की जानकारी हेतु चरूप करावें एवं परीक्षार्थियों को सूचित करें।

संलग्न :-- बी.ए. संशोधित अच्यादेश क्र. ११(पृष्ठ १–२) – बी. एससी. संशोधित अच्यादेश क्र. २१(पृष्ठ ३–४)

सहायक कुलसचिव (परीक्षा) बिलासपुर विश्वविद्यालय, बिलासपुर (छ.म.)

बिलासपुर, दिनांक 23/01/2017

पू. क<u>9,71</u>/परीक्षा/2017

### प्रतिलिपिः-

- माननीय कुलपति / कुलसचिव जी के सादर अवलोकनार्थ एवं सूचनार्थ।
- सहायक कुलसचिव (अकादमी / गोपनीय), बिलासपुर विश्वविद्यालय, बिलासपुर को सूचनार्थ।
- अनुमाग अधिकारी/कक्ष अधीक्षक/कक्ष प्रभारी (अलादमी/गोपनीय/परीक्षा) को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रस्तुत।

सहायक कुलसंचिव (परीक्षा)

### **REVISED ORDINANCE NO.11** (As per State U.G.C. Scheme) BACHELOR OF ARTS 1. The three year course have been broken up in to three Parts. Part-I Examination at the end of the first year. Part-II Examination : at the end of the second year and Part-III Examination : at the end of the third year. A candidate who after passing (10+2) or intermediate exami-nation of C.G. Board of Secondary Education, C.G. or any other examination recognised by the University or C.G. Board of Secondary Education as equivalent thereto, has attended a regular course of study in an affiliated college or in the Teaching Department of the University for one academic year shall be eligible for appearing at the B.A. Part-I examination. 3. A candidate who after passing B.A. Part-I examination of the University or any other examination recognised by the University as equivalent thereto has attended a regular course of study for one academic year in an affiliated college or in the Teaching Department of the University shall be eligible for appearing at the B.A. Part II Examination. A candidate who after passing B.A. Part II examination of the University has completed a regular course of study for one academic year in an affiliated college or in the Teaching Department of the University shall be eligible for appearing at the B.A. Part-III examination. 5 Besides regular students, subject to their compliance with this ordinance, ex-students and non-collegiate candidates shall be eligible for admission to the examination as per provisions of Ordinance N. 6 relating to Examinations (General). Provided that noncollegiate candidates shall be permitted to offer only such subjects/papers as are taught to the regular students at any of the University Teaching Department or College. Every candidate for the Bachelor of arts examination shall be examined in : Foundation Course : A. Group A · Hindi Language D Group B - English Language ii) Three course subjects : One subject from any three group out of the followings R six groups : Sociology / Ancient Indian Histroy / Anthropology 1. Political Science/Home Science / Drawing & Painting / Vocational Course. 2 Hindi Literature/ Sanskrit Literature/Urdu Literature/ Mathematics. 3. 4. Economics/Music/ Defence Studies/ Linguistics / नत्य B.A. Part-I (3)

- 5. Philosophy/Psychology/ Geography/ Education/ Management.
- 6. History/English Literature/ Statistics.
- 7. Practicals (If Nece ssary) for each core subject.
- Any candidate who has passed the B.A. examination of the University shall be allowed to present himself for examination in any of additional subjects prescribed for the B.A. exami-nation and not taken by him at the degree examination. Such candidate will have to first appear and pass the B.A. Part I examination in the subject which he proposes to offer and then the B.A. Part II and Part III examination in the same subject. Successful candidate will be given a certificate to that effect.
- 8. In order to pass at any part of the three year degree course examination, an examinee must obtain not less than 33% of the total makes in each subject/group of subjects. In subject/group of subjects, where both theory and practical examination are provided, an examinee must pass in both theory and practical parts of the examination separately.
- 9. Candidate will have to pass separately at the Part-I, Part II and part-III examination. No division shall be assigned on the result of the Part-I and Part-II examination. In determining the division of the Final examination, total marks obtained by the examinees, in their Part-I, Part-II and Part-III examination in the aggregate shall be taken into account? Candidate will not be allowed to change subjects after passing Part I Examination.

Provided in case of candidate who has passed the examination through the supplementary examination having failed in one subject only the total aggregate marks being carried over for determining the division shall include the actual marks obtained in the subject in which he appeared at the supplementary examination.

 Successful exminees at the Part-III examination obtaining 60% or more marks shall be placed in the First division, those obtaining less than 60% but not less than 45% marks in the Second division and other successful examinees in the third division.

# SYLLABUS B.COM. PART-III

# GROUPING OF SUBJECTS AND SCHEME OF EXAMINATION

Subject			Max.	Min.
Four	ndation Course			
Ι.	Hindi Language		75	26
١١.	English Language		75	26
Com	pulsory Groups			
Group-I				
١.	Income Tax	75	150	50
П.	Auditing	75 ∫	150	50
Group-II				
Ι.	Indirect Taxes	75	150	50
١١.	Management Accounting	75 ∫	150	50
Group-III O	ptional			
Option Gro	oup A (Finance Area)			
١.	Financial Management	75	150	
II.	Financial Market Operations	<b>75</b> ∫	150	50
Option Gro	oup B (Marketing Area)			
Ι.	Principles of Marketing	75	150	50
II.	International Marketing	<b>75</b>	150	50
Option Gro	oup C (Commercial Area)			
Ι.	Information Technology and	75 ]		
	its Applications in Business	}	150	50
П.	Essential of e-Commerce	<b>75</b> J		
Option G	roup D (Money Banking &			
Insu	rance Area)			
١.	Fundamental of Insurance	75	150	50
١١.	Money & Banking System	<b>75</b> J	100	50

### COMPULSORY CORE COURSE TITLE OF PAPER - Group-I - PAPER - I - INCOME TAX OBJECTIVE

It enables the students to know the basics of Income Tax Act and its implications.

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Present syllabus	Proposed syllabus	Remark
UNIT-I Basic Concepts : Income, agricultural Income, casual	UNIT-I Basic Concepts : Income, agricultural	No change
income, assessment year,	Income, casual income, assessment year,	
previous year, gross total income, total income, person.	previous year, gross total income, total income,	
Basis of charge : Scope of total income, residence and tax	person.	
liability, income which does not form part of total income.	Basis of charge : Scope of total income, residence and	
	tax liability, income which does not form part of total	
	income.	
UNIT-II Heads of Income : Salaries; Income from house	UNIT-II Heads of Income : Salaries; Income from	No change
property.	house property.	
UNIT-III Profit and gains of business or profession, including	UNIT-III Profit and gains of business or profession,	No change
provisions relating to specific business; Capital gains, Income	including provisions relating to specific business;	
from other sources.	Capital gains, Income from other sources.	
UNIT-IV Computation of Tax Liabilty : Set-off and carry	UNIT-IV Computation of Tax Liabilty : Set-off and	Omitted
forward of losses; Deduction from gross total	carry forward of losses; Deduction from gross total	firm.
income.Aggregation of income; Computation of total income	income. Aggregation of income; Computation of total	
and tax liability of and individual, H.U.F., and firm.	income and tax liability of individual and & HUF,	
UNIT-V Tax Management : Tax deduction at source; Advance	UNIT-V Tax Management : Tax deduction at source;	Addition of
payment of tax; Assessment procedures; Tax planning for	Advance payment of tax; Assessment procedures; Tax	pratical work
individuals.	planning for individuals.	relating
Tax evasion, Tax Avoidance and Tax planning. Tax	Tax evasion, Tax Avoidance and Tax planning.Tax	important

Administration : Authorities, appeals, penalties.	Administration : Authorities, appeals, penalties.	forms.
	Preparation of return of income	
	-Manually and on line	

- 1. Singhania V.K. : Students Guide to Income Tax; Taxmann, Delhi.
- 2. Prasad, Bhagwati : Income Tax Law & Prectice; Wily Publication, New Delhi.
- 3. Mehrotra H.C. : Income Tax Law & Accounts : Sahitya Bhawan, Agra.
- 4. Girish Ahuja and Ravi Gupta : Systematic approach to income tax : Sahitya Bhawan Publications, New Delhi.
- 5. Chandra Mahesh and Shukla D.C. : Income Tax Law and Practice; Pragati Publications, New Delhi.
- 6. R.K. Jain : Income Tax & Law (Hindi & English) Shahitya Bhavan, Publication, Agra

### COMPULSORY CORE COURSE Group-II - PAPER – I - **INDIRECT TAXES WITH GST** OBJECTIVE

This course aims at imparting basic knowlege about GST and apply the provisions of GST law to various situations.

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PAPER – II

Present syllabus	Proposed syllabus	Remark
UNIT-I Central Excise : Nature and scope of	UNIT-I Customs : Role of customs in international trade;	Due to –
Central Excise; Important terms and definitions	Important terms and definitions goods; Duty; Exporter;	Constitutional
under the Central Excise Act; General procedures of	Foreign going vessel; Aircraft goods; Import; Import	amendment
central excise; Clearance and	Manifest;	(change in tax
excisable goods; Concession to small scale industry	Importer; Prohibited goods; Shipping bill; Store; Bill of	structure)
under Central Excise Act.	lading; Export manifest; Letter	
	of credit; Kinds of duties - basic, auxillary, additional or	
	coutervailing; Basics of levyadvalorem, specific duties;	
	Prohibition of export and import of goods, and provisions	
	regarding notified & specified goods; Import of goods -	
	Free import and restricted import; Type of import - import	
	of cargo, import of personal baggage, import	
	ofstores.Clearance Procedure - For home consumption, for	
	warehousing for re-export; Clearance procedure for import	
	by post; Prohibited exports; Canalised exports; Export	
	against licensing; Type of exports export of cargo, export	
	of baggage; Export of cargo	
	by land, sea, and air routes.	
UNIT-II State Excise, CENVAT. Detail study of	UNIT-II State Excise, CENVAT. Detail study of State	
State Excise during calculation of Tax.	Excise during calculation of Tax.	
UNIT-III Customs : Role of customs in international	UNIT-III INTRODUCTION TO GOODS AND	

trade; Important terms and definitions goods; Duty;	SERVICES TAX (GST) -Objectives and basic scheme of
Exporter; Foreign going vessel; Aircraft goods;	GST, Meaning – Salient features of GST – Subsuming of
Import; Import Manifest;	taxes –Benefits of implementing GST, Structure of GST
Importer; Prohibited goods; Shipping bill; Store;	(Dual Model) – Central GST – State / Union Territory GST
Bill of lading; Export manifest; Letter	– Integrated GST
of credit; Kinds of duties - basic, auxillary,	GST Council: Structures Power and Functions. Provisions
additional or coutervailing; Basics of	fro amendments.
levyadvalorem, specific duties; Prohibition of export	
and import of goods, and provisions	
regarding notified & specified goods; Import of	
goods - Free import and restricted import; Type of	
import - import of cargo, import of personal	
baggage, import ofstores.Clearance Procedure - For	
home consumption, for warehousing for re-export;	
Clearance procedure for import by post; Prohibited	
exports; Canalised exports; Export	
against licensing; Type of exports export of cargo,	
export of baggage; Export of cargo	
by land, sea, and air routes.	
UNIT-IV Central Sales Tax : Important terms and	UNIT-IV
difinitions under the Central Sales Tax Act	Registration under GST: Procedure for registration, Persons
1956 - Dealer, declared good, place of business,	liable for registration, Persons not liable for registration,
sale, sale price, turnover, year, appropriate authority	Compulsory registration. Exempted goods and services -
; Nature and scope of Central Sales Tax Act;	Rates of GST.
Provisions relating to inter-state sales; Sales in side	Procedure relating to Levy: (CGST & SGST): Scope of
a state; Sales/purchase in the course of imports and	supply, Tax liability on Mixed and
exports out of India. Registration of dealers and	Composite supply, Time of supply of goods and services,
procedure thereof; Rate of tax;	Value of taxable supply.
Exemption of subsequent sales; Determination of	Eway-Billing

turnover.	
UNIT-V State Commercial Tax (Chhattisgarh)	UNIT-V ASSESSMENT AND RETURNS -
Definition, Registration, Tax liability, Procedure	Input text Credit: Eligibility, Apportionment, Inputs on
of Computation & Collection of Tax, Penalties &	capital goods, Distribution of credit by Input Service
Prosicution calculation of Tax. VAT Preliminary	Distributor (ISD)
Knowledge.	Furnishing details of outward supplies and inward supplies,
	First return, Annual return and Final return.

- 1. Deloitte: GST Era Beckons, Wolters Kluwer.
- 2. Madhukar N Hiregange: Goods and Services Tax, Wolters Kluwer.
- 3. All About GST: V.S Datey Taxman's.
- 4. Guide to GST: CA. Rajat Mohan,
- 5. Goods & Services Tax Indian Journey: N.K. Gupta & Sunnania Batia, Barat's Publication
- 6. Goods & Services Tax CA. Rajat Mohan,
- 7. Goods & Services Tax: Dr. Sanjiv Agrawal & CA. Sanjeev Malhotra.
- 8. GST Law & Practice: Dr. B.G. Bhaskara, Manjunath. N & Naveen Kumar IM,
- 9. Understanding GST : Kamal Garg, Barat's Publication

### COMPULSORY CORE COURSE TITLE OF PAPER - Group-II - PAPER – II - MANAGEMENT ACCOUNTING OBJECTIVE

This course provides the students an understanding of the application of accounting techniques for management.

Present syllabus	Proposed syllabus	Remark
UNIT-I Management Accounting : Meaning, nature,	UNIT-I Management Accounting : Meaning, nature,	No change
scope, and functions of management Accounting; Role	scope, and functions of management Accounting; Role	
of managment accounting in decision making;	of managment accounting in decision making;	
Management accounting vs financial accounting; Tools	Management accounting vs financial accounting; Tools	
and techniques of management accounting ;Financial	and techniques of management accounting ;Financial	
statement; Objectives and methods of financial statements	statement; Objectives and methods of financial	
analysis; Ratio analysis; Classification of ratios -	statements analysis; Ratio analysis; Classification of	
Profitability ratios, turnover ratios, liquidity	ratios - Profitability ratios, turnover ratios, liquidity	
ratios, turnover ratios; Advantages of ratio analysis;	ratios, turnover ratios; Advantages of ratio analysis;	
Limitations of accounting ratios.	Limitations of accounting ratios.	
UNIT-II Funds Flow Statement as per Indian Accounting	UNIT-II Funds Flow Statement as per Indian Accounting	
Standard 3, cash flow statement.	Standard 3, cash flow statement.	
UNIT-III Absorption and Marginal Costing : Marginal	UNIT-III Absorption and Marginal Costing : Marginal	
and differential costing as a tool for decision making -	and differential costing as a tool for decision making -	
make or buy; Change of product mix; Pricing, Break-even	make or buy; Change of product mix; Pricing, Break-	
analysis;	even analysis;	
Exploring new markets; Shutdown decisions.	Exploring new markets; Shutdown decisions.	
UNIT-IV Budgeting for profit Planning and control :	UNIT-IV Budgeting for profit Planning and control :	
Meaning of budget and budgetary control;Objectives;	Meaning of budget and budgetary control;Objectives;	
Merits and limitations; Types of budgets; Fixed and	Merits and limitations; Types of budgets; Fixed and	

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flexible budgeting;	flexible budgeting;	
Control ratios; Zero base budgeting; Responsibility	Control ratios; Zero base budgeting; Responsibility	
accounting; Performance	accounting; Performance	
budgeting.	budgeting.	
UNIT-V Standard Costing and Variance Analysis :	UNIT-V Standard Costing and Variance Analysis :	
Meaning of standard cost and standard	Meaning of standard cost and standard costing;	
costing; Advantages and application; Variance analysis -	Advantages and application; Variance analysis -	
material; Labour and	material; Labour and	
overhead (Two-way analysis); Variances.	overhead (Two-way analysis); Variances.	

- 1. Arora M.N.: Cost Accounting Principles and Practice, Vikas, New Delhi.
- 2. Jain S.P. & Narang K.L. : Cost Accounting; Kalyani, New Delhi.
- 3. Anthony, Rogert & Reece, at al : Principles of Management Accounting; Richard Irwin Inc.
- 4. Horngren, Charles, Foster and Datar et al : Cost Accounting A Managerial Emphasis; Prentice Hall, New Delhi.
- 5. Khan M.Y. and Jain P.K. : Management Accounting : Tata McGraw Hill, New Delhi.
- 6. Kaplan R.S. and Atkonson A.A. : Advanced Management Accounting; Printice Hall India, New Delhi.
- 7. J.K. Agrawal & R.K. Agrawal : Jaipur (English & Hindi ).
- 8. Dr. M.R. Agrawal : Minakshi Prakashan Meruth.
- 9. Dr. S.P. Gupta Agra (Hindi & English).

### COMPULSORY CORE COURSE TITLE OF PAPER - Group-I - PAPER – II - AUDITING OBJECTIVE

This course aims at imparting knowlege about the principles and methods of auditing and their applications.

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Present syllabus	Proposed syllabus	Remark
UNIT-I Introduction : Meaning and objectives of	UNIT-I Introduction : Meaning and objectives of auditing;	No change
auditing; Types of audit; Internal audit.Audit Process :	Types of audit; Internal audit.Audit Process : Audit	
Audit programme; Audit note books; Working papers	programme; Audit note books; Working papers and	
and evidences.	evidences.	
UNIT-II Internal Check System : Internal control.	UNIT-II Internal Check System : Internal control.	No change
Audit Procedure : Vouching : Verification of assets and	Audit Procedure : Vouching : Verification of assets and	
liabilities.	liabilities.	
UNIT-III Audit of Limited Companies :	UNIT-III Audit of Limited Companies :	Added
a. Company auditor - Appointment, powers, duties, and	a. Company auditor –Qualification, Appointment, powers,	Qualificati
liabilities.	duties, Resignation and liabilities.	on and
b. Divisible profits and dividend.	b. Divisible profits and dividend.	Resignatio
c. Auditor's report - standard report and qualified report.	c. Auditor's report - standard report and qualified report.	n of
d. Special audit of banking companies.	d. Special audit of banking companies.	company
e. Audit of educational institutions.	e. Audit of educational institutions.	auditor
f. Audit of Insurance companies.	f. Audit of Insurance companies.	
UNIT-IV Investigation : Investigation; Audit of non	UNIT-IV Investigation : Investigation; Audit of non profit	No change
profit companies,	companies,	
a. Where fraud is suspected, and	a. Where fraud is suspected, and	
b. When a running a business is proposed.	b. When a running a business is proposed.	
c. Varifications & Valuation of assets.	c. Varifications & Valuation of assets.	

UNIT-V Recent Trends in Auditing : Nature and	UNIT-V Recent Trends in Auditing : Nature and significance	Omitted
significance of cost audit; Tax audit;	of cost audit; Tax audit;	company auditing -
Management audit. Company auditing - Qualification,	Management audit.	Qualification
		,
liabilities.		Appointment
		, Resignation
		and
		Liabilities
		and merge it
		in II unit

1. Gupta KaPal : Contemporary Auditing : Tata Mcgraw Hill, New Delhi.

2. Tandon B.N. : Principles of Auditing : S. Chand & Co., New Delhi.

3. Pagare Dinkar : Principles and Practice of Auditing : Sultan Chand, New Delhi.

4. Sharma T.R. : Auditing Principles and Problems, Sahitya Bhawan, Agra.

5. Shukla S.M. : Auditing - Shahitya Bhavan, Agra, (Hindi)

6. Batliboy : Auditing.

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# OPTIONAL GROUP A (Finance Area) TITLE OF PAPER - FINANCIAL MANAGEMENT

### PAPER - I

# OBJECTIVE

The objective of this course is to help students understand the conceptual framework of financial management.

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Present syllabus	Proposed syllabus	Remark
UNIT-I Financial Management : Financial goals; Profit vs	UNIT-I Financial Management : Financial goals; Profit vs	No change
wealth maximization; Financial	wealth maximization; Financial	
functions-investment, financing, and dividend decisions;	functions-investment, financing, and dividend decisions;	
Financial planning.	Financial planning.	
UNIT-II Capital Budgeting : Nature of investment decisions,	UNIT-II Capital Budgeting : Nature of investment	
Investment evaluation criteria, payback period, accounting	decisions, Investment evaluation criteria, payback period,	
rate of return, net present value, internal rate of return	accounting rate of return, net present value, internal rate	
profitability index; NPV and IRR comparison.	of return	
	profitability index; NPV and IRR comparison.	
UNIT-III Cost of Capital : Significance of cost of capital;	UNIT-III Cost of Capital : Significance of cost of capital;	
Calculating cost of debt; Preference	Calculating cost of debt; Preference	
shares, equity capital, and retained earnings; Combined	shares, equity capital, and retained earnings; Combined	
(weighted) cost of capital. Operating and financial Leverage :	(weighted) cost of capital. Operating and financial	
Their measure; Effects on profit, analyzing alternate financial	Leverage : Their measure; Effects on profit, analyzing	
plans, combined financial and operating leverage.	alternate financial plans, combined financial and	
	operating leverage.	
UNIT-IV Capital Structure : Theories and determinates.	UNIT-IV Capital Structure : Theories and determinates.	
Dividend Policies : Issues in dividend policies; Walter's	Dividend Policies : Issues in dividend policies; Walter's	
model; Gordon's model; M.M. Hypothesis, forms of	model; Gordon's model; M.M. Hypothesis, forms of	
dividends and stability in dividends, determinats.	dividends and stability in dividends, determinats.	
UNIT-V Management of Working Capital : Nature of	UNIT-V Management of Working Capital : Nature of	

working capital, significance of working capital, operating cycle and factors determining of working capital	working capital, significance of working capital, operating cycle and factors determining of working	
requirements,	capital requirements,	
Management of working capital - cash, recevables, and	Management of working capital - cash, recevables, and	
inventories.	inventories.	

1. Van Home J.C. : Financial Management and Policy; Prentice Hall of India, New Delhi.

2. Khan M.Y. and Jain P.K. : Financial Management, Text and Problems; Tata McGrow Hill, New Delhi.

3. Prasanna Chandra L Financial Management Theory and practice; Tata McGrow Hill, New Delhi.

4. Pandey I.M. : Financial Management Vikas Publishing Hous, New Delhi.

5. Brigham E.F. Gapenski L.C., and Ehrhardt M.C. : Financial Management - Theory and

Practice; Harcourt College Publishers, Singapore.

6. Bhalla V.K. : Modern Working Capital Management, Anmol Pub. Delhi.

### OPTIONAL GROUP A (Finance Area) TITLE OF PAPER - FINANCIAL MARKET OPERATIONS OBJECTIVE

PAPER – II

This course aims at acquainting the students with the working of financial markets in India.

M.M. 75

Present syllabus	Proposed syllabus	Remark
UNIT-I Money Market : Indian money market's	UNIT-I Money Market : Indian money market's	No change
composition and structure; (a) Acceptance	composition and structure; (a) Acceptance	
houses, (b) Discount houses and (c) Call money market;	houses, (b) Discount houses and (c) Call money market;	
Recent trends in Indian money market.	Recent trends in Indian money market.	
UNIT-II Capital Market : Security market - (a) New	UNIT-II Capital Market : Security market - (a) New	Omitted over
issue market, (b) Secondary market;	issue market, (b) Secondary market;	the counter
Functions and role of stock exchange; listing procedure	Functions and role of stock exchange; listing procedure	exchanges and
and legal requirements; Public	and legal requirements; Public	added Bombay
issue - pricing and marketing; Stock exchanges -	issue - pricing and marketing; Stock exchanges -	stock exchange
National Stock Exchange and over the counter	National Stock Exchange, Bombay stock exchange	
exchanges.		
UNIT-III Securities contract and Regulations Act : Main	UNIT-III Securities contract and Regulations Act : Main	No change
provgisions. Investors Protection :	provgisions. Investors Protection : Grievancesconcerning	
Grievancesconcerning stock exchange dealings and their	stock exchange dealings and their removal; Grievance	
removal; Grievance cells in stock exchanges; SEBI;	cells in stock exchanges; SEBI; Company Law Board;	
Company Law Board; Press;	Press;	
Rmedy through courts.	Rmedy through courts.	
UNIT-IV Functionaries on Stock Exchanges : Brokers,	UNIT-IV Functionaries on Stock Exchanges : Brokers,	No change
sub brokers, market makers, jobbers, portfolio	sub brokers, market makers, jobbers, portfolio	-
consultants, institutional investors, and NRIs.	consultants, institutional investors, and NRIs.	
UNIT-V Financial Services : Marchant banking -	UNIT-V Financial Services : Marchant banking -	No change

Functions and roles; SEBI guide-lines; Credit rating -	Functions and roles; SEBI guide-lines; Credit rating -	
concept, functions, and types.	concept, functions, and types.	

1. Chandler M.V. and Goldfeld S.M. : Economics of money and Banking, Harper and Row, New Delhi.

2. Gupta Suraj B. Monetary Economics; s. chand and Co. New Delhi.

3. Gupta Suraj B. Monetary Planning in India; Oxford, Delhi.

4. Bhole L.M. : Financial Markets and Institutions : Tata McGrow Hill, New Delhi.

5. Hooda R.P. : Indian Securities Market - Investors view point; Excell Books, New Delhi.

6. R.B.I. : Functions and Working.

7. R.B.I. : Report in Currency and Finance.

8. R.B.I. : Report of the Committee to Review the working of the Monetary system

Chakravarty committee.

9. R.B.I. : Report of the Committee on the Financial System, Narsimham Committee.

# OPTIONAL GROUP B (Marketing Area)

# TITLE OF PAPER - PRINCIPLES OF MARKETING

### PAPER – I

### OBJECTIVE

The Objective of this course is to help students to understand the concept of marketingand its applications.

M.M.	75
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Present syllabus	Proposed syllabus	Remark
UNIT-I Introduction : Nature and scope of marketing;	UNIT-I Introduction : Nature and scope of marketing;	No change
Importnace of marketing as a business function, and in	Importnace of marketing as a business function, and in the	
the economy; Marketing concepts - traditional and	economy; Marketing concepts - traditional and modern;	
modern; Selling vs. marketing; Marketing mix;	Selling vs. marketing; Marketing mix; Marketing	
Marketing environment.	environment.	
UNIT-II Consumer Behaviour and Market Segmentation	UNIT-II Consumer Behaviour and Market Segmentation :	No change
: Nature, scope, and significance of consumer behaviour;	Nature, scope, and significance of consumer behaviour;	
Market segmentation - concept and importance; Bases	Market segmentation - concept and importance; Bases for	
for	market segmentation.	
market segmentation.		
UNIT-III Product : Concept of product, consumer, and	UNIT-III Product : Concept of product, consumer, and	No change
industrial goods; Product planning and development;	industrial goods; Product planning and development;	
Packaging role and functions; Brand name and trade	Packaging role and functions; Brand name and trade mark;	
mark; after sales service; Product life cycle concept.	after sales service; Product life cycle concept. Price :	
Price : Importance of price in the marketing mix; Factors	Importance of price in the marketing mix; Factors affecting	
affecting price of a product/	price of a product/service; Discounts and rebates.	
Service ; Discounts and rebates.		
UNIT-IV Distributions Channels and Physical	UNIT-IV Distributions Channels and Physical Distribution;	No change
Distribution; Distribution channels - Concept and	Distribution channels - Concept and role; Types of	
role; Types of distribution channels. Factors affecting	distribution channels. Factors affecting choice of a	

choice of a distribution channel;Retailer and holesaler;	distribution channel;	
Physical distribution of goods; Transportation,	Retailer and holesaler; Physical distribution of goods;	
Warehousing,	Transportation, Warehousing,	
Inverntory control; Order processing.	Inverntory control; Order processing.	
UNIT-V Promotion : Methods of promotion; Optimum	UNIT-V Promotion : Methods of promotion; Optimum	Added
promotion mix; Advertising media – their ralative merits	promotion mix; Advertising media – their ralative merits and	Recent
and limitations; Characteristics of an effective	limitations; Characteristics of an effective advertisement;	trends in
advertisement; Personal selling; Selling as a career;	Personal selling; Selling as a career; Classification of	marketing
Classification of successful sales person; Functions of	successful sales person; Functions of salesman.	
salesman.	Recent development in marketing -social marketing, online	
	marketing, Direct marketing, Services marketing, Green	
	marketing.	

1. Philip Kotler : Marketing Management Englewood Cliffs; Prentice Hall, N.J.

2. William M. Pride and O.C. Ferrell : Marketing : Houghton - Mifflin Boston.

3. Stanton W.J. Etzel Michael J., and Walker Bruce J. Fundamentals of Marketing; McGraw Hill, New York.

4. Lamb Charies W., Hair Joseph F. and McDaniel Carl : Principles of Marketing; South- Western-Publishing, Cincinnati, Ohio.

5. Cravens David W. Hills Gerald E., Woodruff Robert B : Marketing management : Richard D. Inwin, Homewood Illinois.

6. Kotler Philip and Armstrong Gary : Principles of Marketing; Prentice Hall of India, New Delhi.

7. Dr. R.C. Agrawal, Agra.

8. Dr. S.C. Saxena Agra.

9. Dr. S.K. Jain, Hindi Granth Academi. M.P.

10. Dr. N.C. jain

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### OPTIONAL GROUP B (Marketing Area) TITLE OF PAPER - INTERNATIONAL MARKETING OBJECTIVE

PAPER – II

M.M. 75

This course aims at acquainting student with the operations of marketing in international environment.

Proposed syllabus Present syllabus Remark UNIT-I International Marketing : Nature, definiton, and UNIT-I International Marketing : Nature, definiton, and No change scope of international marketing; scope of international marketing; Domestic marketing vs. International marketing; Domestic marketing vs. International marketing; International environment external and internal. International environment external and internal. UNIT-II Identifying and Selecting Foreign Market : Foreign UNIT-II Identifying and Selecting Foreign Market : No change market entry mode decisions. Product Planning for Foreign market entry mode decisions. Product Planning international Market : Product designing; Standardization for international Market : Product designing; vs. adaptation; Branding and packaging; Labeling and Standardization vs. adaptation ; Branding and quality issues; After sales service. International Pricing : packaging; Labeling and quality issues; After sales Factors Influenceing International price; Pricing processservice. International Pricing : Factors Influenceing process and methods; International price quotation and International price; Pricing process-process and methods; International price quotation and payment payment terms. terms. UNIT-III Promotion of Product/Services Abroad : Methods UNIT-III Promotion of Product/Services Abroad : No change of international promotion; Direct Methods of international promotion; Direct mail and sales literature; Advertising; Personal selling; mail and sales literature; Advertising; Personal selling; Trade fairs and exhibitions. Trade fairs and exhibitions. **UNIT-IV** International Distribution : Distribution channels **UNIT-IV** International Distribution : Distribution No change and logistics decisions; Selection and channels and logistics decisions; Selection and appointment of foreign sales agents. appointment of foreign sales agents. UNIT-V Export Policy and Practices in India : Exim policy UNIT-V Export Policy and Practices in India : Exim Added - an overview; Trends in India's foreign trade; Steps in policy - an overview; Trends in India's foreign trade; Marketing

starting an export business; Product selection; Market	Steps in starting an export business; Product selection;	Control
selection; Export pricing; Export finance; Documentation;	Market	Process
Export procedures; Export	selection; Export pricing; Export finance;	
assistance and incentives.	Documentation; Export procedures; Export	
	assistance and incentives.	
	Marketing Control Process	

1. Bhattacharya R.L. and Varshney B. : International Mrketing Management; Sultan Chand, New Delhi.

2. Bhattacharya B. : Export Marketing Strategles for Success; Global Press, New Delhi.

3. Keegan W.J. : Multinational Marketing Management; Prentice Hall, New Delhi.

4. Kriplani V. : International marketing; Prentice Hall New Delhi.

5. Taggart J.H. and Moder Mott. M.C. : The Essence of International Business; Prentice Hall New Delhi.

6. Kotler Phillip : Principles of Marketing; Prentice Hall New Delhi.

7. Fayer Weather John : International Marketing; Prentice Hall N.J.

8. Caterora P.M. and Keavenay S.M. : Marketing an international Perspective; Erwin Homewood, Illinois.

9. Paliwala, Stanely J. The Essence of International marketing; Prentice Hall, New Delhi.

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# OPTIONAL GROUP C (Commercial Area) TITLE OF PAPER - INFORMATION TECHNOLOGY AND ITS APPLICATIONS IN BUSINESS PAPER – I OBJECTIVE

The objective of the course is to famillatize the students with the innovation information technology and how it affects business. An understanding of the group rules of these technologies will enable the students to appreciate the nitty-gritty Commerce.

Present syllabus	Proposed syllabus	Remark
UNIT-I Information Revolution and information	UNIT-I Information Revolution and information	No change
Technology (IT) : Deployment of Business; Basic features	Technology (IT) : Deployment of Business; Basic features	_
of IT; Impact of IT on business environment and social	of IT; Impact of IT on business environment and social	
fabric; Invention of writing; Written books; Printing Press	fabric; Invention of writing; Written books; Printing Press	
and movable type Gutenberg's invention; Radio; telephone,	and movable type Gutenberg's invention; Radio;	
wireless and satelite communication computing and	telephone, wireless and satelite communication computing	
dissemination of information and knowledge and	and dissemination of information and knowledge and	
convergence technologies (Internet with Wireless- WAP).	convergence technologies (Internet with Wireless-WAP).	
UNIT-II Fundamentals of Computer : Data, information and	UNIT-II Fundamentals of Computer : Data, information	
EDP : Data, information and	and EDP : Data, information and	
concept of data and information; Levels of information from	concept of data and information; Levels of information	
data; processing;	from data; processing; Electronic data processing;	
Electronic data processing; Electronic machines;	Electronic machines;	
a. Number Systems and Codes : Different number systems -	a. Number Systems and Codes : Different number systems	
binary, octal decimal,	- binary, octal decimal,	
hexagonal, and their conversion codes used in computers;	hexagonal, and their conversion codes used in computers;	
Bed, EBCDIC, ASCII; Gray and conversions.	Bed, EBCDIC, ASCII; Gray and conversions.	
b. Computer Arithmetic and Gates : Binary arithmetic,	b. Computer Arithmetic and Gates : Binary arithmetic,	

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complements, addition	complements, addition	
subtraction; Conversion from one system to another; Logic	subtraction; Conversion from one system to another; Logic	
Gates, truthtable and	Gates, truthtable and	
applications minimisation, and K-maps.	applications minimisation, and K-maps.	
c. Computer Processing System : Definition of computer;	c. Computer Processing System : Definition of computer;	
Hardware/Software	Hardware/Software	
concepts; Generation of computers; Types of computers;	concepts; Generation of computers; Types of computers;	
Elements of computer; CPU and its functions, Various	Elements of computer; CPU and its functions, Various	
computer systems.	computer systems.	
d. I/O devices : Basic concepts of I/O devices; Various input	d. I/O devices : Basic concepts of I/O devices; Various	
devices Keyboard, mouse; MICR, OCR, microphones.	input devices Keyboard, mouse; MICR, OCR,	
e. Various output devices : VDU, printer, plotter, spooling,	microphones.	
L.S.	e. Various output devices : VDU, printer, plotter, spooling,	
f. Storage Devices : Primary and secondary memory; Types	L.S.	
of memory capacity and its enhancement; Memory devices	f. Storage Devices : Primary and secondary memory;	
and comparisons; Auxiliary storage, tapes, disks (magnetic	Types of memory capacityand its enhancement; Memory	
and potical); various devices and their comparison.	devices and comparisons; Auxiliary storage, tapes, disks	
g. System Software - Roale of Software, Different System	(magnetic and potical); various devices and their	
Software : O.S., utilization element of O.S Its types and	comparison.	
variations; DOS and windows.	g. System Software - Roale of Software, Different System	
h. Computer and Networks : Need of communication; Data	Software : O.S., utilization element of O.S Its types and	
transmission; Baud;	variations; DOS and windows.	
Bandwidth; Communication Channel; Multiplexing; Basic	h. Computer and Networks : Need of communication;	
network concepts;O.S.I. model; Types of topologies; LAN,	Data transmission; Baud;	
WAN, Client server concept.	Bandwidth; Communication Channel; Multiplexing; Basic	
	network concepts;O.S.I. model; Types of topologies;	
	LAN, WAN, Client server concept.	
UNIT-III Computer-based Business Applications	UNIT-III Computer-based Business Applications	
a. Word Processing : Meaning and role of word processing	a. Word Processing : Meaning and role of word processing	

in creating of documents,	in creating of documents,	
editing, formatting, and printing documents, using tools	editing, formatting, and printing documents, using tools	
such as spelling check,	such as spelling check,	
thesaurus, etc. in word processors (MS-Word).	thesaurus, etc. in word processors (MS-Word).	
b. Electronic Spreadsheet : Structure of spreadsheet and its	b. Electronic Spreadsheet : Structure of spreadsheet and its	
applications toaccounting, finance, and marketing functions	applications toaccounting, finance, and marketing	
of business; Crating a dynamic/sensitive worksheet ;	functions of business; Crating a dynamic/sensitive	
Concept of absolute and relative cell reference; Using	worksheet; Concept of absolute and relative cell	
builtin functions; Goal seeking and solver tool; Using	reference; Using builtin functions; Goal seeking and solver	
graphics and formatting of	tool; Using graphics and formatting of	
worksheet; Sharing data with other desktop applications;	worksheet; Sharing data with other desktop applications;	
Strategies of crating error-free worksheet (MS-Excel, Lotus	Strategies of crating error-free worksheet (MS-Excel,	
123). Practical knowledge on WingsAccounting (Software).	Lotus 123). Practical knowledge on WingsAccounting	
c. Programming under a DBMS environment : The concept	(Software).	
of data base management system; Data field, records, and	c. Programming under a DBMS environment : The	
files, Sorting and indexing data; Searching records,	concept of data base management system; Data field,	
designing queries, and reports; Linking of data files	records, and files, Sorting and indexing data;Searching	
;Understanding programming environment in DBMS;	records, designing queries, and reports; Linking of data	
Developing menu drivenapplications in query language	files ;Understanding programming environment in DBMS;	
(MS-Access).	Developing menu drivenapplications in query language	
	(MS-Access).	
UNIT-IV Electronic Data Interchange (EDI)	UNIT-IV Electronic Data Interchange (EDI)	
Introduction to EDI; Basics of EDI; EDI standards;	Introduction to EDI; Basics of EDI; EDI standards;	
Financial EDI (FEDI); FEDI for	Financial EDI (FEDI); FEDI for	
international trade transaction; Applications of EDI;	international trade transaction; Applications of EDI;	
Advantages of EDI; Future of EDI.	Advantages of EDI; Future of EDI.	
UNIT-V The Internet and its Basic Concepts Internet-	UNIT-V The Internet and its Basic Concepts Internet-	
concept, history development in India; Technological	concept, history development in India; Technological	
foundation of internet;	foundation of internet;	

Distributed computing; Client-server computing; Internet	Distributed computing; Client-server computing; Internet	
protocol suite; Application of	protocol suite; Application of	
distributed computing; Client-server computing; Internet	distributed computing; Client-server computing; Internet	
protocol suite in the internet	protocol suite in the internet	
environment; Domain Name System (DNS(; Domain Name	environment; Domain Name System (DNS(; Domain	
Service (DNS); Generic	Name Service (DNS); Generic	
top-lelvel domian (gTLD); Country code top-level domain	top-lelvel domian (gTLD); Country code top-level domain	
(ccTLD); - India; Llocation	(ccTLD); - India; Llocation	
of second-level doomains; IP addresses; Internet protocol;	of second-level doomains; IP addresses; Internet protocol;	
Applications of Internet	Applications of Internet	
in business, education, governance, etc.Information System	in business, education, governance, etc.Information	
Audit Basic idea of information audit; Difference with the	System Audit Basic idea of information audit; Difference	
traditional concepts of audit; Conduct and applications of IS	with the traditional concepts of audit; Conduct and	
audit in internet environment.	applications of IS audit in internet environment.	

1. Agrawala Kamlesh N. and Agarwala Deeksha : Business on the Net - Introduction to Ecommerce,

Macmillan India, New Delhi.

2. Agarwala Kamlesh, N. and Agarwala Deeksha : Bulls, Bears and The mouse; and introduction to On-line Service Market Trading; Macmillan India, New Delhi.

3. Agarwala Kamlesh, N. and Agarwala Prateek Amar; WAP the Net; An Introduction on Wireless Application Protocol; Macmillan India, New Delhi.

4. Bajaj Kamlesh K. and Nag Debjanl : E-Commerce; The cutting Edge of Business; Tata McGraw Hill, New Delhi.

5. Edwards, Ward and Bytheway : The Essence of Information Systems; Prentice Hall, New Delhi.

6. Garg & Srinivasan : Work Book on Systems Analysis & Design; Prentice Hall New Delhi.

7. Kanter : Managing with Information; Prentice Hall New Delhi.

8. Minoli Daniel, Minoli Emma : Web Commerce Technology Handbook; Tata McGraw Hill,

New Delhi.

9. Minoli Daniel : Internet & Internet Engineering; Tata McGrow Hill, New Delhi.

10. Yeats : Systems Analysis & Design; Macmillan India, New Delhi.

11. Goyal : Management information System; Macmillan India, New Delhi.

12. Timothi J O'Leary : Microsoft Office 2000; Tata McGrow Hill, New Delhi.

### OPTIONAL GROUP C (E-Commerce Area) TITLE OF PAPER - ESSENTIAL OF E-COMMERCE OBJECTIVE

PAPER – II

The objective of this course is to familiarize the students with the basics of e-commerce and to comprehend its potential.

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Present syllabus	Proposed syllabus	Remark
UNIT-I Internet and Commerce : Business operations; E-	UNIT-I Internet and Commerce : Business operations; E-	No change
Commerce practices; Concepts b2b,b2c, b2g, g2h; Benefits	Commerce practices; Concepts b2b,b2c, b2g, g2h; Benefits	_
of e-commerce to organization, consumers, and society;	of e-commerce to organization, consumers, and society;	
Limitation of e-commerce; Management issues relating to e-	Limitation of e-commerce; Management issues relating to	
commerce.	e-commerce.	
Operations of E-Commerce : Credit card transaction; Secure	Operations of E-Commerce : Credit card transaction;	
Hypertext Transfer	Secure Hypertext Transfer	
Protocol (SHTP); Electronic payment systems; Secure	Protocol (SHTP); Electronic payment systems; Secure	
electronic transaction (SET);	electronic transaction (SET);	
Set's encryption; Process; Cybercash; Smart cards; Indian	Set's encryption; Process; Cybercash; Smart cards; Indian	
payment models.	payment models.	
UNIT-II Applications in B2C : Consumer's shopping	UNIT-II Applications in B2C : Consumer's shopping	No change
procedure on the internet; Impact on	procedure on the internet; Impact on	
disintermediation and re-inermediation; Global market;	disintermediation and re-inermediation; Global market;	
Strategy of traditional	Strategy of traditional	
department stores; Products in b2c model; Success factors of	department stores; Products in b2c model; Success factors	
e-brokers; Broker based	of e-brokers; Broker based	
services on-line; Online travel tourism services; Benefits and	services on-line; Online travel tourism services; Benefits	
impact of e-commerce	and impact of e-commerce	
on travel industry; Real estate market; Online stock trading	on travel industry; Real estate market; Online stock trading	
and its benefits; Online	and its benefits; Online	

banking and its benefits; Online financial services and their	banking and its benefits; Online financial services and their	
future; Educations	future; Educations	
benefits, implementation, and impact.	benefits, implementation, and impact.	
UNIT-III Applications in B2B; Applications of b2b, Key	UNIT-III Applications in B2B; Applications of b2b, Key	No change
technologies for b2b; Architectural	technologies for b2b; Architectural	
models of b2b; Characteristics of the supplier-oriented	models of b2b; Characteristics of the supplier-oriented	
marketplace, buyer-oriented	marketplace, buyer-oriented	
marketplace, and intermediary-oriented marketplace;	marketplace, and intermediary-oriented marketplace;	
Benefits of b2b on procurement	Benefits of b2b on procurement	
re-engineering; Just in Time delivery in b2b; Internet-based	re-engineering; Just in Time delivery in b2b; Internet-based	
EDI from traditional EDI;	EDI from traditional EDI;	
Integrating EC with back-end information systems;	Integrating EC with back-end information systems;	
Marketing issues in b2b.	Marketing issues in b2b.	
UNIT-IV Applications in Governance : EDI in governance;	UNIT-IV Applications in Governance : EDI in governance;	No change
E-government; E-governance	E-government; E-governance	
applications of the internet; Concept of government to	applications of the internet; Concept of government to	
business, business to	business, business to	
government and citizen-to-government; E-governance	government and citizen-to-government; E-governance	
models; Private sector interface	models; Private sector interface	
in e-governance.	in e-governance.	
UNIT-V Emerging Business Models : Retail model; Media	UNIT-V Emerging Business Models : Retail model; Media	Added
model; Advisory model, Mode-toorder manufacturing model;	model; Advisory model, Mode-toorder manufacturing	Security
Do-it yourself model; Information service model; Emerging	model; Do-it yourself model; Information service model;	and Legal
hybrid models; Emerging models in India.	Emergin	aspects of
	hybrid models; Emerging models in India.	E-
	Security and Legal aspects of E-commerce.	commerce.

Suggested Reading : 1. Agarwala Kamlesh. N. and Agarwala Deekhsa : Bridge to Online Storefornt; Macmillan India, New Delhi.

2. Agarwala Kamlesh. N. and Agarwala Deeksha : Business on the Net Introduction to the E-commerce; Macmillan India New Delhi.

3. Agarwala Kamlesh N. and Agarwala Deeksha : Bulls, Bears and The Mouse : An Introduction to Online Stock Market Trading; Macmillan India New Delhi.

4. Tiwari Dr. Murli D. : Eductaion and E-Governance; Macmillan India, New Delhi.

5. Minoli Daniel, Minoli Emma : Web Commerce Technology Handbook; Tata McGraw Hill, New Delhi.

6. Minoli Deniel, Internet & Internet Engineering : Tata McGrow Hill, 1999.

7. Bhatnagar Subhash and Schware Robert (Eds) : Information and Communication

Technology in Development; Sage Publications India, New Delhi.

8. Amor, Daniel : E-business R evealuation, The : Living and Working in an Interconnected World; Prentice Hall, U.S.

9. Afuah, A., and Tuccu, C.: Internet usiness models and Strategies; McGraw Hill, New York.

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# OPTIONAL GROUP D (Money Banking & Insurance Area) TITLE OF PAPER FUNDAMENTAL OF INSURANCE OBJECTIVE

PAPER – I

This course enables the students to know the fundamentals of insurance.

Present syllabus	Proposed syllabus	Remark	
UNIT-I Introduction to Insurance : Purpose and need of insurance;	UNIT-I Introduction to Insurance : Purpose and need of	No change	
Insurance as a social security tool; Insurance and economic	insurance; Insurance as a social security tool; Insurance and		
development.	economic development.		
UNIT-II Fundamentals of Agency Law : Definiton of an agent;	UNIT-II Fundamentals of Agency Law : Definiton of an	No change	
Agents regulations; Insurance intermediaries; Agents Compensation.	agent; Agents regulations; Insurance intermediaries; Agents		
	compensation.		
UNIT-III Procedure for Becoming an Agent : Prerequisite for	UNIT-III Procedure for Becoming an Agent : Prerequisite	No change	
obtaining a license; Duration of license; Cancellation of incense;	for obtaining a license; Duration of license; Cancellation of		
Revocation or suspension/termination of agent appointment; Code	incense; Revocation or suspension/termination of agent		
of conduct; Unfair practices. Functions of the Agent : Proposal form	appointment; Code of conduct; Unfair practices. Functions		
and other forms for grant of cover; Financial and medical	of the Agent : Proposal form and other forms for grant of		
underwriting; Material information; Nomination and assignment;	cover; Financial and medical underwriting ; Material		
Procedure regarding settlement of policy claims.	information; Nomination and assignment; Procedure		
	regarding settlement of policy claims.		
UNIT-IV Company Profile : organizational set-up of the company;	UNIT-IV Company Profile : organizational set-up of the	No change	
Promotion strategy; Market share; Important activities; Structure;	company; Promotion strategy; Market share; Important		
Product; Actuarial profession; Product pricing actuarial aspects;	activities; Structure; Product; Actuarial profession; Product		
Distribution channels.	pricing actuarial aspects; Distribution channels.		
UNIT-V Fundamentals/Principles of Life insurance/ Marine /Fire	UNIT-V Fundamentals/Principles of Life insurance/ Marine	Added	
/Medical/General Insurance; Contracts of various kinds; Insurable	/Fire /Medical/General Insurance; Contracts of various	Online	
Interest.	kinds; Insurable Interest.	insurance	
	Online insurance procedure	procedure	

- 1. Mishra M.N. : Insurance Principle and Practice; S. Chand and Co., New Delhi.
- 2. Insurance Regulatory Development Act. 1999.
- 3. Life Insurance Corporation Act. 1956.
- 4. Gupta OS : Life Insurance; Frank brothers, New Delhi.
- 5. Vinayakam N., Radhaswamy and Vasudevan SV : Insurance Principles and Practice,
- S. Chand and Co. New Delhi.
- 6. Mishra MN : Life Insurance Corporation of India, Vols I, II & III; Raj Books, Jaipur.
- 7. Balchand Shriwastava, Agra.
- 8. Dr. M.L. Singhai, RAmesh Book Depot, Jaipur.

### OPTIONAL GROUP D TITLE OF PAPER - MONEY & BANKING SYSTEM OBJECTIVE

(Money Banking & Insurance Area) PAPER – II

This course enables the students to know the working of the Indian Money & banking system.

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IVI.	IVI.	13

Present syllabus	Proposed syllabus	Remark
UNIT-I Money : Function, Alternative Measures to money	UNIT-I Money : Function, Alternative Measures to	No change
supply in India - their different components. Meaning and	money supply in India - their different components.	
changing relative importance of each.	Meaning and changing relative importance of each.	
UNIT-II Indian Banking System : Structure and organization	UNIT-II Indian Banking System : Structure and	No change
of banks; Reserve Bank of India; Apex banking Institutions;	organization of banks; Reserve Bank of India; Apex	
Commercial banks; Regional rural banks; Cooperative banks;	banking Institutions; Commercial banks; Regional rural	
Development banks.	banks; Cooperative banks; Development banks.	
UNIT-III Banking Regulation Act, 1947 : History; Social	UNIT-III Banking Regulation Act, 1947 : History;	No change
control; Banking Regulation Act as applicable to banking	Social control; Banking Regulation Act as applicable to	
companies and public sector banks; Banking Regulation Act	banking companies and public sector banks; Banking	
as applicable to Cooperative banks.	Regulation Act as applicable to Cooperative banks.	
UNIT-IV Regional Rural and Cooperative Banks in India :	UNIT-IV Regional Rural and Cooperative Banks in	No change
Functions; Role of regional rural and cooperative banks in	India : Functions; Role of regional rural and	
rural India; Progress and performance.	cooperative banks in rural India; Progress and	
	performance.	
UNIT-V Reserve Bank of India : Objectives; Organization ;	UNIT-V Reserve Bank of India : Objectives;	Added
Functions and working; Monetary policy; Credit control	Organization ; Functions and working; Monetary	Internet
measures and their effectiveness.State Bank of India, Project	policy; Credit control measures and their effectiveness.	banking
History, Objectives, Functions & Organization working	State Bank of India, Project History, Objectives,	system
& progress.	Functions & Organization working & progress.	
	Internet banking system	

- 1. Basu A.K. : Fundamentals of Banking-Theory and Practice; A Mukherjee and Co., Calcutta.
- 2. Sayers R.S. : Modern Banking : Oxford University Press.
- 3. Panandikar S.G. And Mithani D.M. : Banking in India; orient Longman.
- 4. Reserve Bank of India : Functions and Working.
- 5. Dekock : Central Banking; Crosby lockwood Staples, London.
- 6. Tannan M.L. : Banking Law and Practice in India : India Law House, New Delhi.
- 7. Knubchandani B.S. : Practice and Law of Banking; Macmillan, New Delhi.
- 8. Shekhar and Shekhar : Banking Theory and Practice; Vikas Publishing House, New Delhi.
- 9. Harishchandra Sharma.
- 10. M.L. Singhai.

B. Com 100 -III. Year Compuser Stillicology

### COMPUTER APPLICATION MARKS DISTRIBUTION

Theory Paper	Raper - I				Total	Marks	- 50
	Reper - I	I			Total	Marks	- 50
Every unit of The	ory Paper will	consists of	10 Marks.				
Practical Paper					Total	Marks	- 50
Practical Marks Di	stribution :	Viva	-	10			
		Internal	-	15			
		Practical	-	25			
Practical Test will	l consist of 3 H	ks.			Total M	arks -	150

#### PAPER - I

PROGRAMMING IN VISUAL BASIC

#### (Paper Code-1165)

#### UNIT-I Introduction to Visual Basic, Programs, Variables

Editions of Visual Basic, Event Driven Programming, Terminology, Working environment, project and executable files, Understanding modules, Using the code editor window, Other code navigation features, Code documentation and formatting, environment options, code formatting option automatic code completion features. Introduction to objects, Controlling objects, Properties, methods and events, Working with forms, interacting with the user: MsqBox function, InputBox function, Code statements, Managing forms, Creating a program in Visual Basic, Printing, Overview of variables, Vser-defined data types, constants working with procedures, Working with dates and times, Using the Format Function, Manipulating text stringe.

#### UNIT-II Controlling Program Execution, Working with Control

Comparison and logical operators, If ... Them statements, Select Case Statements looping structures, Using Do....Loop structures, For....Next statement, Exiting a loop. Types of controls, Overview of standard controls, ComboBox and ListBox, OptionButton and Frame controls Menu, Status bars, Toolbars, Advanced standard controls, ActiveX controls, Insertable objects, Arrays, Dynamic Arrays.

#### UNIT-III Procedure, Function Error Trapping & Debugging

Procedure, Function, call by value, call by reference, Type definition, with object, Validation, Overview of nun-time errors, error handling process, The Err object, Errors and calling chain, Errors in an error-handling routine, Inline error handling, Error handling styles, General error-trapping options Type of errors, Break mode Debug toolbar, Watch window, Immediate window, Local window, Tracing Program flow with the Call Stack.

B. Com. -Part -III

Anithilelis (Dr. A.K. Dowedi) (LC.K. Gave) Hew Hender Purple Property for (Dr. J.D. K. Dowedi) (Dr. J. Dowedie) (Dr. J. D. K. Gave)

### UNIT-IV Sequential and Random Files :

Saving data to file, basic filling, data analysis and file, the extended text editor, File organization Random access file, The design and coding, File Dialog Box, Picture Box, Image box, Dialog Box, using clipboard, Copy, Cut, Paste of Text & Picture in Clipboard, Use of Grid Control Multiple document interface, Single document interface.

### UNIT-V Data Access Unsing the ADO Data Control & Report Generation

Overview of ActiveX data Objects, Visual Basic data access features, Relational database concepts Using the ADO Data control to access data, Overview of DAO, RDO, Data Control, structured query language (SQL), Manipulating data Using Data Form Wizard, Overview of Report, Data Report, Add groups, Data Environment, Connection to database Introduction to Crystal Report Generator.

#### BOOK REFERENCE :

- Visual Basic Programming Reeta Sahu, B.P.B. Publication. 1
- 2 Mastering in Visual Basic - By BFB Publications.
- 3 Visual Basic Programming Mark Brit.

#### PAPER - II

SYSTEM ANALYSIS, DESING & MIS

(Paper Code-1166)

#### UNIT-T Introduction -

Systems Concepts and the information systems environment : Definition of system, Characteristics of system, elements of system, types of system, The system Development life cycle : consideration of candidates system. The Role of system Analyst : Introduction, the multiphase role of the analyst, the analyst / user interface, the place of the analyst in the MIS Organization.

### UNIT-II System Analysis, Tools of Structured Analysis, Feasibility Study-

System Planning and initial investigation : Basis for planning in systems analysis, initial investigation, fact finding, fact analysis, determination of feasibility. Information Gathering : Kind of information, Information gathering tools. Structured Analysis, Flow chart, DFD, Data Dictionary, Decision Tree, Structured

English, Decision Table. System Performance, Feasibility Study. Data Analysis.

### UNIT-III System Design & System Implementation -

The process of Design Methodologies. Input Design, Output Design, Form Design, File Structure, File organization, data base design, System Testing, the test plan, quality assurance, data processing auditor. Conversion, Post implementation review, Software Maintenance.

### UNIT-IV Introduction to MIS & Other Subsystem-

Evolution of MIS, Need of MIS, Definition & Benefits of MIS, Characteristic, Role component of Information system, data base as a future of MIS, Decision making, logic of Management Information system. Structure of MIS.

#### UNIT-V Information System Concept -

Difference between Transaction Processing. System (TPS) and Management Information System, How MIS works, MIS and Information Resource Management, Quality information Building Blocks for the information system, information system concept, Other system characteristic (Open & Closed System), difference between MIS & Strategic System, Adaptive system, Business function information system.

#### BOOK REFERENCE :

- System Analysis and Design Elias M. Awad. 1.
- 2 System Analysis and Design - Alan Dennis & Barbara Haley Wixo.
- Management Information systems C.S.V. Murthy, Himalaya Publication House. 3

#### PAPER - III

#### PRACTICAL EXERCISES BASED ON PAPER I & II

#### Practicals to be done -

- At least 20 practical exercises covering the contents of paper I (e.g. Designing 1 calculator, sorting of elements, Generating Fibbonacci series)
- Design the Project on one of the following Application Software / Website Design/ 2 Accounting software / Inventory control System / System Software & othter (e.g. Library Management System, Medical management, Stock Management, Hotel Management, Website for your institute / Website of any Organization)
- 3 The Project Report cover the following topic Objective, Hardware & Software Requirements, Analysis, Design, Coding, input forms, testing, Reports, Future enhancement of s/w.
- Practical exam is based on the Project Demonstration & report.

B. Com. - Part-III Source - 18 (Dr. A.K. Deivedi) (L.K. Gaver) uni mener prometting for Dr. Sungay kumer) (Dr. A.K. Deivedi) (L.K. Gaver) uni mener prometting for Dr. Sungay kumer


# बिलासपुर विश्वविद्यालय, बिलासपुर (छ.ग.)

पाट्यक्रम SYLLABUS

सत्र: 2017-18

बी.एससी. भाग-3 B.Sc. PART-3

Website: - www.bilaspuruniversity.ac.in

# PT. RAVISHANKAR SHUKLA UNIVERSITY RAIPUR (C.G.)

# REVISED ORDINANCE NO. 21 BACHELOR OF SCIENCE

- 1. The three year course has been broken up into three Parts. Part-I known as B.Sc. Part-I examination at the end of the first year, Part-II known as B.Sc. Part-Ii examination at the end of the second year and Part-III known as B.Sc. Part-III examination at the end of the third year.
- 2. A candidate who after passing (10+2) Higher Secondary or Intermediate examination of C.G. Board of Secondary Education Bhopal or any other Examination recognised by the University or C.G. Board of Secondary Education as equivalent thereto, has attended a regular course of study in an affiliated College or in the Teaching Department of the University for one academic year shall be eligible for appearing at the B.Sc. Part-I examination.
- 3. A candidate who, after passing the B.Sc.-I examination of the University or any other examination recognised by the University as equivalent thereto, has attended a regular course of study for one academic year in an affiliated college or in the Teaching Department of the University shall be eligible for appearing at the B.Sc. Part-II examination.
- 4. A candidate who, after passing the B.Sc. Part-Ii examination of the University, has completed a regular course of study for one academic year in an affiliated college or in the Teaching Department of the University shall be eligible for appearing at the B.Sc. Part-III examination.
- 5. Besides regular students, subject to their compliance with this Ordinance exstudent and non-collegiate candidates shall be permitted to offer only such subjects/papers as are taught to the regular student at any of the University Teaching Department or College.
- 6. Every candidate appearing in B.Sc. Part-I, Part-II and Part-III examination shall be examined in -
  - (i) Foundation Course :
  - (ii) Any one of the following combinations of three subjects :-
    - 1. Physics, Chemistry & Mathematics.
    - 2. Chemistry, Botany & Zoology.
    - 3. Chemistry, Physics & Geology.
    - 4. Chemistry, Botany & Geology.
    - 5. Chemistry, Zoology & Geology.
    - 6. Geology, Physics & Mathematics.
    - 7. Chemistry, Mathematics & Geology.
    - 8. Chemistry, Botany & Defence Studies.
    - 9. Chemistry, Zoology & Defence Studies
    - 10. Physics, Mathematics & Defence Studies.
    - 11. Chemistry, Geology & Defence Studies
    - 12. Physics, Mathematics & Statistics
    - 13. Physics, Chemistry & Statistics
    - 14. Chemistry, Mathematics & Statistics.
    - 15. Chemistry, Zoology & Anthropology.
    - 16. Chemistry, Botany & Anthropology.
    - 17. Chemistry, Geology & Anthropology.
    - 18. Chemistry, Mathematics & Statistics.

- 19. Chemistry, Anthropology & Defence Studies.
- 20. Geology, Mathematics & Statistics.
- 21. Mathematics, Defence Studies & Statistics
- 22. Anthropology, Mathematics & Statistics
- 23. Chemistry, Anthropology & Applied Statistics
- 24. Zoology, Botany & Anthropology
- 25. Physics, Mathematics & Electronics.
- 26. Physics, Mathematics & Computer Application
- 27. Chemistry, Mathematics & Computer Application
- 28. Chemistry, Bio-Chemistry & Pharmacy
- 29. Chemistry, Zoology & Fisheries.
- 30. Chemistry, Zoology & Agriculture
- 31. Chemistry, Zoology & Sericulture
- 32. Chemistry, Botany & Environmental Biology
- 33. Chemistry, Botany & Microbiology
- 34. Chemistry, Zoology & Microbiology
- 35. Chemistry, Industrial Chemistry & Mathematics
- 36. Chemistry, Industrial Chemistry & Zoology
- 37. Chemistry, Biochemistry, Botany
- 38. Chemistry, Biochemistry, Zoology
- 39. Chemistry, Biochemistry, Microbiology
- 40. Chemistry, Biotechnology, Botany
- 41. Chemistry, Biotechnology, Zoology
- 42. Geology, Chemistry & Geography
- 43. Geology, Mathematics & Geography
- 44. Mathematics, Physics & Geography
- 45. Chemistry, Botany & Geography
- (iii) Practical in case prescribed for core subjects.
- 7. Any candidate who has passed the B.Sc. examination of the University shall be allowed to present himself for examination in any of the additional subjects prescribed for the B.Sc. examination and not taken by him at the degree examination. Such candidate will have to first appear and pass the B.Sc. Part-I examination in the subjects which he proposes to offer and then the B.Sc. Part-II and Part-III examination in the same subject. Successful candidates will be given a certificate to that effect.
- 8. In order to pass at any part of the three year degree course examination an examinee must obtain not less than 33% of the total marks in each subject/ group of subjects. In subject/ group of subjects where both theory and practical examination are provided an examinee must pass in both theory and practical parts of the examination separately.
- 9. Candidate will have to pass separately at the Part-I, Part-II and Part-III examinations. No division shall be assigned on the result of the Part-I and Part-II examination. In determining the division of the final examination, total marks obtained by the examinees in their Part-I, Part-II and Part-III examination in the aggregate shall be taken in to account. Provided in case of candidate who has passed the examination through supplementary examination having failed in one subject/ group only, the total aggregate marks being carried over for determining the division shall include actual marks obtained in the subject/ group in which he appeared at the supplementary examination.

10. Successful examinee at the Part-III examination obtaining 60% or more marks shall be places in the First Division, those obtaining less than 60% but not less than 45% marks in the Second Division and other successful examinees in the Third Division.

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In clause 6(ii) after serial No. 41, 42-45 inserted. Approved in 23<sup>rd</sup> Co-Ordination committee Dated 15-01-2014.

# B. Sc. Part - III

# विषय–सूची

1.	Revised Ordinance No. 21	3
2	Scheme of Examination	5
3.	Foundation Course : आधार पाठ्यक्रम	7
4.	Chemistry (रसायन शास्त्र)	9
5.	Physics (भौतिक शास्त्र)	15
6.	Mathematics	19
7.	Botany (वनस्पति शास्त्र)	26
8.	Zoology (प्राणी शास्त्र)	29
9.	Microbiology (सूक्ष्म जीव विज्ञान)	32
10.	Geology (भूविज्ञान)	35
11.	Statistics (सांख्यिकी)	38
12.	Defence Studies (रक्षा अध्ययन)	41
13.	Industrial Chemistry (औद्योगिक रसायन)	44
14	Computter Science	48
15.	Informatin Technology	53
16.	Industrial Microbiology	55
17.	Electronics (इलेक्ट्रानिक्स)	57
18.	Anthropology (मानव विज्ञान)	60
19.	Electronic Equipment maintenance	63
20.	Biotechnology	60
21.	Biochemistry	68

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Subjec	t	Paper	Max.	Total	Min.
			Marks	Marks	Marks
(A) Co Fo	ompulsory Subject oundation Course				
1	) Hindi Language	I	75	-	26
2	) English Language	I	75	-	26
(B) T	hree Elective Subject :				
2. C	hemistry	I	33		
		I	33	100	33
		I	34		
		Practical		50	17
1. P	hysics	I	50		
		I	50	100	33
		Practical		50	17
3. M	athematics	I	50		
		I	50	150	50
		I	50		
4. B	otany	I	50	100	30
		I	50	100	33
		Practical		50	17
5. Z	cology	I	50	100	22
		I	50	100	55
		Practical		50	17
6. G	eology	I	50	100	33
		I	50		
		Practical	50	50	17
7. 51	tatistics	1 T	50	100	33
		L Droct	50	EO	17
0 7		FIACULCAL	50	JUC	1/
x. A	пспгоротоду	1	50	100	33
		Ţ	50		
			Practical	50	17
9. II	nde. chemistry	I	34		
		I	33	100	33
		I	33		
		Practical		50	17

#### SCHEME OF EXAMINATION

Subj	ject	Paper		Max. Marks	Min. Marks
10	Defence Studies	т	50		
TO.		I	50	100	33
		Practical		50	17
11.	Micro Biology	I	50		
		I	50	100	33
		Practical		50	17
12.	Electronics	I	50		
		I	50	100	33
		Practical		50	17
13.	I.T.	I	50	100	22
		I	50	100	33
		Practical		50	17
14.	Computer Science	I	50	100	22
		I	50	100	33
		Practical		50	17
15.	Biochemistry	I	50	100	22
		I	50	TOO	22
		Practical		50	17

#### USE OF CALCULATORS

The Students of Degree/P.G. Classes will be permitted to use of Calculators in the examination hall from annual 1986 examination on the following conditions as per decision of the standing committee of the Academic Council at its meeting held on 31-1-1986.

- 1. Student will bring their own Calculators.
- 2 Calculators will not be provided either by the University or examination centres.
- 3. Calculators with, memoty and following variables be permitted +, -, x, , square, reciprocal, expotentials log, square root, trignometric functions, wize, sine, cosine, tangent etc. factionial summation, xy, yx and in the light of objective approval of merits and demerits of the viva only will be allowed.

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B.Sc.-111

#### आधार पाठ्यक्रम

# हिन्दी भाषा

( पेपर कोड-0891 )

#### प्रथम प्रश्न पत्र

पूर्णांक - 75

(बी.ए., बी.एस.सी., बी.एच.एस-सी., बी.काम., तृतीय वर्ष के पुनरीक्षित एकीकृत आधार पाठ्यक्रम

एवं पाठ्य सामग्री का संयोजन 2000-2001 से लागू है)

# ।। सम्प्रेषण कौशल, हिन्दी भाषा और सामान्य ज्ञान ।।

आधार पाठ्यक्रम की संरचना और अनिवार्य पाठ्य पुस्तक- हिन्दी भाषा एवं समसामयिकी- का संयोजन इस तरह किया गया है कि सामान्य ज्ञान की विषय वस्तु- विकासशील देशों की समस्याओं- के माध्यम और साथ-साथ हिन्दी भाषा का ज्ञान और उसमें सम्प्रेषण कौशल अर्जित किया जा सके । इसी प्रयोजन से व्याकरण की अन्तर्वस्तु को विविध विधाओं की संकलित रचनाओं और सामान्य ज्ञान की पाठ्य सामग्री के साथ अन्तर्गुम्फित किया गया है । अध्ययन-अध्यापन के लिए पूरी पुस्तक की पाठ्य सामग्री है और अभ्यास के लिये विस्तृत प्रश्नावली है । यह प्रश्नपत्र भाषा का है अत: पाठ्य सामग्री का व्याख्यात्मक या आलोचनात्मक अध्ययन अपेक्षित नहीं है । पाठ्यक्रम और पाठ्य सामग्री का संयोजन निम्नलिखित पाँच इकाइयों में किया जाता है । प्रत्येक इकाई को दो भागों में विभक्त किया गया है ।

**इकाई** - 1 (क) भारत माता : सुमित्रानंदन पंत, परशुराम की प्रतीज्ञा : रामधारी सिंह दिनकर, बहुत बड़ा सवाल : मोहन राकेश, संस्कृति और राष्ट्रीय एकीकरण : योगेश अटल ।

(ख) कथन की शैलियाँ: रचनागत उदाहरण और प्रयोग ।

- इकाई -2 (क) विकासशील देशों की समस्यायें, विकासात्मक पुनर्विचार, और प्रौद्योगिकी एवं नगरीकरण ।
  - (ख) विभिन्न संरचनाएँ ।
- इकाई 3 (क) आधुनिक तकनीकी सभ्यता, पर्यावरण प्रदूषण तथा धारणीय विकास ।
  - (ख) कार्यालयीन पत्र और आलेख।
- इकाई 4 (क) जनसंख्या : भारत के संदर्भ में और गरीबी तथा बेरोजगारी ।
  - (ख) अनुवाद ।
- इकाई 5 (क) ऊर्जा और शक्तिमानता का अर्थशास्त्र ।
  - (ख) घटनाओं, समारोहों आदि का प्रतिवेदन और विभिन्न प्रकार के निमंत्रण-पत्र ।

मूल्यांक योजना : प्रत्येक इकाई से एक-एक प्रश्न पूछा जायेगा । प्रत्येक प्रश्न में आंतरिक विकल्प होगा । प्रत्येक प्रश्न के 15 अंक होंगे । प्रत्येक इकाई दो-दो खंड (क्रमश: 'क' और 'ख' में) विभक्त है, इसलिए प्रत्येक प्रश्न के भी दो भाग, (क्रमश: 'क' और 'ख') होंगे । 'क' अर्थात पाठ एवं सामान्य ज्ञान से संबद्ध प्रश्न के अंक 8 एवं 'ख' अर्थात भाषा एवं सम्प्रेषण कौशल से संबद्ध प्रश्न के अंक 7 होंगे । इस प्रकार पूरे प्रश्न पत्र के पूर्णांक 75 होंगे ।

#### PART - II

#### (Paper Code-0892)

#### ENGLISH LANGUAGE

25

The question paper for B.A./B.Sc./B.Com./B.H.Sc. III Foundation course, English Language and General Answers shall comprise the following items :

Five question to be attempted, each carrying 3 marks.

- UNIT-IEssay type answer in about 200 words. 5 essay type question to be asked three to<br/>be attempted.15UNIT-IIEssay writing10UNIT-IIIPrecis writing10UNIT-IV(a)Reading comprehension of an unseen passage05(b)Vocabulary based on text10
- UNIT-V Grammar Advanced Exercises
- Note: Question on unit I and IV (b) shall be asked from the prescribed text. Which will comprise of popular create writing and the following items. Minimum needs housing and transport Geo-economic profile of M.P. communication Educate and culture. Women and Worm in Empowerment Development, management of change, physical quality of life. War and human survival, the question of human social value survival, the question of human social value, new Economic Philosophy Recent Diberaliation Method) Demoration docontralisation (with reference to 73, 74 constitutional Amendment.

#### Books Prescribed :

Aspects of English Language And Development - Published by M.P. Hindi Granth Academy, Bhopal.

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#### CHEMISTRY

The new curriculum will comprise of Three papers of 33,33, & 34 marks each and Practical work of 50 marks. The curriculum is to be completed in 180 working days as per the UGC norms & conforming to the directives of the Govt. of Chhattisgarh. The theory papers are of 60 hrs. each duration & the practical work of 180 hrs. duration.

# PAPER - I (Paper Code-0895) INORGANIC CHEMISTRY M.M. 33

#### UNIT-I METAL-LIGAND BONDING IN TRANSITION METAL COMPLEXES

Limitations of valence bond theory, an elementary idea of crystal field theory, crystal field splitting in octahedral, tetrahedral and square planar complexes, factors affecting the crystal field parameters.

Thermodynamic and kirietic aspects of metal complexes.

A brief outline of thermodynamic stability of metal complexes and factors affecting the stability, substitution reactions of square planar complexes.

#### UNIT-II MAGNETIC PROPERTIES OF TRANSITION METAL COMPLEXES

Types of magnetic behaviour, methods of determining magnetic susceptibility, spin only formula, L-S coupling, correlation of  $\mu$ s and  $\mu$  eff. values, orbital contribution to magnetic moments, application of magnetic moment data for 3d metal complexes. Electronic spectra of Transition Metal Complexes.

Types of electronic transitions, selection rules for d-d transitions, spectroscopic ground states, spectro-chemical series. Orgel-energy level diagram for  $d^1$  and  $d^2$ 

states, discussion of the electronic spectrum of

# UNIT-III ORGANOMETALLIC CHEMISTRY [Ti(H<sub>2</sub>O)<sub>6</sub>]<sup>3+</sup>

Definition, nomenclature and classification of organo metallic compounds. Preparation, properties, bonding and applications of alkyls and aryls of Li, Al, Hg, Sn, & Ti, A brief account of metal-ethylenic complexes and homogeneous hydrogenation, monouclear carbonyls and nature of bodning in metal carbonyls.

UNIT-IV BIOINORGANIC CHEMISTRY

Essential and trace elements in biological processes, metalloporphyrins with special reference to hemoglobin and myoglobin. Biological role of alkali and alkaline earth metals with special reference to  $Ca^{21}$ , nitrogen fixation.

UNIT-V HARD AND SOFT ACIDS AND BASES (HSAB) 07 HRS. Classification of acids and bases as hard and soft. Perason's HSAB concept, acidbase strength and hardness and softness. Symbiosis Silicones and Phosphazenes Silicons and phosphazenes as examples of inorganic polymers, nature of bonding in triphosphazenes.

#### **REFERENCE BOOKS :**

- 1. Basic Inorganic Chemistry, F.A. Cotton, G. Wilkinson and P.L. Gaus, Wiley
- 2. Concise Inorganic Chemistry, J.D. Lee, ELBS.
- 3. Concepts of models of Inorganic Chemistry, B. Douglas, D. McDaniel and J. Alexander, John Wiley
- 4. Inorganic Chemistry, D.E. Shriver, P.W. Atkkins and C.H. Langford, Oxford.

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complex ion.

- 5. Inorganic Chemistry, W.W. Porterfield, Addison-Wesley.
- 6. Inorganic Chemistry, A.G. Sharp, ELBS.
- 7. Inorganic Chemistry, G.L. Miessler and D.A. Tarr, Prentice Hall.
- 8 Advanced Inorganic Chemistry, Satyas Prakash.
- 9. Advanced Inorganic Chemistry, Agarwal & Agarwal.
- 10. Advanced Inorganic Chemistry, Puri & Sharma, S. Naginchand
- 11. Inorganic Chemistry, Madan, S. Chand & Co.
- 12. Adhunik Akarbanic Rasayan, A.K. Shrivastav & P.C. Jain, Goel Pub.
- 13. Ucchattar Akarbanic Rasayan, Satya Prakash & G.D. Tuli, Shyamlal Prakashan
- 14. Ucchattar Akarbanic Rasayan, Puri & Sharma.

# PAPER - II (Paper Code-0896) ORGANIC CHEMISTRY M.M. 33

#### UNIT-I A. ORGANICMETALLIC COMPOUNDS

Organomegenesium compounds : Grignard reagents-formation, structure and chemical reactions. Organozinc compounds : formation and chemical reactions. Organolithium compounds : formation and chemical reactions.

#### B. Organosulphur Compounds

Nomenclature, structural features, methods of formation and chemical reactions of thiols, thioethers, sulphonic acids, sulphonamides and sulphaguanidine.

#### Organic Synthesis via Enolates

Active methylene groupalkylation of diethylmalonate and ethyl acetoacetate. Synthesis of ethyl acetoacetate : the Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate.

#### UNIT-II BIOMOLECULES

#### A. Carbohydrates :

Configration of monosaccharides, three and erythe diastereomers. Formation of glycosides ethers and esters Determination of ring size of monosaccharides. Cyclic structure of D(+) glucose. Structure of ribose and deoxyribose. An introduction to disaccharides (maltose, sucrose and lactose) and polysaccharides (starch and cellulose) without involving structure determination.

#### B. Proteins and Nucleic acids

Classification and structure of protein levels of protein structure, protein denaturation / renaturation, Constituents of amino acids Ribonucleicsids and ribouncleotieds, double helical structure of DNA.

#### UNIT-III A. Synthetic Polymers

Addition or chain growth polymerization. Free radical vinyl polymerization, Ziegler-Natta polymerization, Condensation or Step growth polymerization, Polyesters, polyamides, phenols- formaldehyde resins, urea- formaldehyde resins, epoxy resins and polyurethanes, natural and synthetic rubbers.

#### B. Synthetic Dyes

Colour and constitution (Electronic Concept). Classification of Dyes. Chemistry of dyes. Chemistry and synthesis of Methyl Orange, Congo Red, Malachite Green, Crystal Violet, Phenolphthalein, fluorescein, Alizarine and Indigo.

#### UNIT-IV SPECTROSCOPY

A. Mass spectroscopy : mass spectrum fragmentation of functional groups.

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- B. InfraRed Spectroscopy : IR absorption Band their position and intensity, Identification of IR spectra.
- **C. UV-Visible Spectroscopy :** Beer Lambert's law, effect of Conjugation max Visible spectrum and colour.
- D. Anthocyanin as natural colouring matter (Introduction only)
- E. Application of Mass, IR, UV-Visible Spectroscopy to organic molecules.
- **UNIT-V A. NMR Spectroscopy :** Introduction to NMR. Shielding and Number of signal in PMR, Chemical shift and characteristic values, spiltting of Signals and Coupling constant. Application to organic molcules.
  - B. <sup>13</sup>CMR Spectroscopy : Principal & Application.
  - C. Magnetic Resonance Imaging (MRI) Introductory idea.

#### **REFERENCE BOOKS :**

- 1. Organic Chemistry, Morrison and Boyd, Prentice-Hall
- 2. Organic Chemistry, L.G. Wade Jr., Prentice-Hall
- 3. Fundamentals of Organic Chemistry, Solomons, John Wiley
- 4. Organic Chemistry, Vol.I, II, III, S.M. Mukherjee, S.P. Singh and R.P. Kapoor, Wiley-Eastern (New-Age)
- 5. Organic Chemistry, F.A. Carey, McGraw Hill
- 6 Introduction to Organic Chemistry, Streiweisser, Heathcock and Kosover, Macmillan
- 7. Organic Chemistry, P.L. Soni
- 8. Organic Chemistry, Bahi & Bahl
- 9. Organic Chemistry, Joginder Singh
- 10. Carbanic Rasayan, Bashi & Bahi
- 11. Carbanic Rasayan, R.N. Singh, S.M.I. Gupta, M.M. Bakodia & S.K. Wadhwa
- 12. Carbanic Rasayan, Joginder Singh.
- 13. Carbanic Resayan, P.L., Soni.
- 14. Corbanic Rasayan, Bhagchandani, Sahitya Bhawan Publication.
- 15. Rasayan Vigyan, Bhatnagar, Arun Prakashan.

#### PAPER - III (Paper Code-0897) PHYSICAL CHEMISTRY

#### UNIT-I QUANTUM MECHANICS

Black body radiation, Plank's radiation law, photoelectric effect, Compton effect. DeBroglie's idea of matter waves, experimental verification Heisenberg's uncertainty principle, Sinosoidal wave equation, Operators : Hamiltonian operator, angular momentum operator, laplacian operators postulate of quantum mechanics Eigen values, Eigen function. Schrodinger time independed wave equation physical significance of and . Applications of schrodinger wave equation : particle in one dimensional box Hydrogenation (separation into three equation's) radial wave function and angular wave function.

#### UNIT-II QUANTUM MECHANICS-II

Quantum mechanical approach of molecular orbit theory; basic idea criteria for forming M.O and A.O, LCAO approximation, formation of  $H^{2+}$  ion, calculation of energy levels from wave functions bonding and antibonding wave functions concept of and

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orbitals and their characteristics, Hybrid orbital : SP,  $SP^2$ ,  $SP^3$ , Calculation of coefficients  $Ad^s$  used in these hybrid orbitals.

Introduction to valence bond model of  $H^2$ , Comparison of M.O. and V.B. model, Huckle theory, application of huckel theory to ethane propene etc.

#### UNIT-III SPECTROSCOPY-I

- A. Introduction, characterization of electromagenetic radiation, regions of the spectrum, representation of spectra width and intensity of spectral transition, rotational spectra of calculated diatomic molecules, energy level of rigid rotator, selection rule, determination of bond length qualitative description of non - rigid rotator isotopic effect.
- B. Vibrational spectra Fundamental vibrational and their symmetry, vibrating diatomic molecules, energy levels of simple harmonic oscillator. Selection Rule, Pure vibrational Spectrum, determination of force constant, diatomic vibrating operator. Anhormonic Oscillator.
- C. Raman Spectra : Concept of polarizability, quantum theory of Raman spectra stokes and anti stokes lines pure rotational and vibrational Raman spectra, Application of Raman spectra stokes and anti stokes lines, pure rotational and vibrational Raman apectra, Applications of Raman spectra.

#### UNIT-IV SPECTROSCOPY-II

- A. Electronic Spectra : Electronic Spectra of diatonic molecule, Frank London principle, types of electronic transitions. Applications of electronic spectra.
- B. Photo-chemistry: Interaction of radiation with matter, difference between thermal and photochemical processes. Laws of photochemistry. Grothus-Drapper law, Stark-Elinstein law, Jablonski diagram depicting various process occurring in the excited state, qualitative description of fluorescence, occurring in the excited state, qualitative description of fluorescence, phosphorescence, non-radiative processes (internal conversion, intersystem crossing), quantum yield photosensitized reactions energy transfer processes (simple examples).

#### UNIT-V A. Thermodynamics

Energy refered to absolute zero, third law of therodynamics Test of III law of thermodynamics Nerst heat theorem application and limitation of Nerst heat theorem.

- B. Physical properties and molecular structure : polarization of molecules, {Classius-Mosotti equation. orientation of dipoles in an electric field. Dipol moment, induced dipole moment, measurement of dipole moment. Temperature methods and refractivity methods. Dipole moment and molecular structure.
- **C.** Magnetic Properties : Parmagenetism diamagnetism, ferromagnetism. Determination of magnetic susceptibility, elucidation of molecular structure.

#### **REFERENCE BOOKS :**

- 1. Physical Chemistry, G.M. Barrow, International student edition, McGaw Hill
- 2. Basic programming with application, V.K. Jain, Tata McGraw-Hill
- 3. Computers & Common sense, R. Hunt & Shelly, Prentice-Hall
- 4. University general chemistry, C.N.R. Rao, Macmillan.
- 5. Physical Chemistry, R.A. Alberty, Wiley Eastern
- 6. The elements of Physical Chemistry, P.W. Atkin, Oxford

- 7. Physical Chemistry through problems, S.K. Dogra & S. Dogra, Wiley Eastern
- 8 Physical Chemistry, B.D. Khosla
- 9. Physical Chemistry, Puri & Sharma
- 10. Bhoutic Rasayan, Puri & Sharma
- 11. Bhoutic Rasayan, P.L. Soni
- 12. Bhoutic Rasayan, Bahl & Tuli

#### PAPER-IV

#### LABORATORY COURSE

180 Hrs.

#### Inorganic Chemistry

Synthesis Analysis

- (a) Preparation of Sodium trioxalato ferrate (III),  $Na_3 [Fe(C_2O_4)_3]$  and determination of its composition by permanganometry.
- (b) Preparation of Ni-DMG complex, [Ni(DMG)<sub>2</sub>]
- (c) Preparation of copper tetraammine complex,  $[Cu(NH_3)_4]SO_4$ .
- (d) Preparation of cis-and trans-bioxalato diaqua chromate (III) ion.

Gravimetric Analysis

Analysis of Cu as CuSCN or CuO, Ni as Ni(DMG) $_2$ , Ba as BaSO $_4$  and Fe as Fe $_2$ O $_3$ 

#### Organic Chemistry

Laboratory Techniques

- A Steam Distillation Napthalene from its suspension in water Clove oil from cloves Separation of ortho and para-nitrophenols.
- B Column Chromatography Separation of fluorescein and methylene blue Separation of leaf pigments from spinach leaves Resolution of recemic mixture of (+,-) mandelic acid.

#### Qualitative Analysis

Analysis of an organic mixture containing two solid components using water,  $NaHCO_3$ , NaOH for separation and preparation of suitable derivatives.

#### Synthesis of Organic Compounds

- (a) Acetylation of salicylic acid, aniline, glucose and hydroquinone. Benzoylation of aniline and phenol.
- (b) Aliphatic electrophilic substitution- Preparation of iodoform form ethanol and acetone.
- Aromatic electrophilic substitution Nitration-Preparation of m-dinitrobenzene, p-nitroacetanilide
   Halogenation- Preparation of p-bromoacetanilide, 2,4,6 tribromophenol
- (d) Diazotization/Coupling- Preparation of methyl orange and methyl red
- (e) Oxidation- Preparation of benzoic acid from toluene
- Reduction-Preparation of aniline from nitrobenzene, m-nitroaniline from m-dinitrobenzene.

#### Physical Chemistry

Electrochemistry

- (a) To determine strength of given acid conductometrically using standard alkali solution.
- (b) To determine solubility and solubility product of a sparingly soluble electrolyte conductometrically.

- (c) To study saponification of ethyl acetate conductometrically.
- (d) Determine the ionization constant of a weak acid conductometrically.
- (e) To titrate potention metrically the given ferrous annonium sulphate using  $KMnO_4/K_2Cr_2O_7$  as titrant and calculate the redox potential of Fe<sup>2+</sup>/Fe<sup>3+</sup> system on the hydrogen scale.

#### Refractometry and Polarimetry

- (a) To verify law of refraction of mixtures (e.g. of glycerol and water) using Abbe's refractometer.
- (b) To determine the specific rotation of a given optically active compound.

#### Molecular Weight Determination

- Determination of molecular weight of a non-volatile solute by Rast method/Beckmann freezing point method.
- b) Determination of the apparent degree of dissociation of an electrolyte (e.g., NaCl) in aqueous solution at different concentrations by ebullioscopy.

#### Colorimetry

To verify Beer-Lambert law for  $\rm KMnO_4/\,K_2Cr_2O_7$  and determine the concentration of the given solution of the substance.

#### **REFERENCE BOOKS :**

- 1. Vogel's qualitative Analysis, revised, Svehla, Orient Longman
- 2 Standard methods of chemical analysis, W.W. Scott, The Technical Press
- 3. Experimental Organic Chemistry, Vol. I & II, P.R. Singh, D.S. Gupta and K.S. Bajpai, tata McGraw Hill.
- 4. Laboratory Manual in Organic Chemistry, R.K. Bansal, Wiley Eastern
- 5. Vogel's Text Book of Practical Organic Chemistry, B.S. Furnis, A.J. Hannaford, V. Rogers, P.W.G. Smith and A.R. Tatchel, ELBS
- 6. Experiments in general chemistry, C.N.R. Rao & U.C. Agrawal
- 7. Experiments in Physical Chemistry, R.C. Das & Behra, Tata McGraw Hill
- 8. Advanced Practical Physical Chemistry, J.B. Yadav, Goel Publishing House.

#### 8 Hrs. PRACTICAL EXAMINATION M.M.50.

#### Five experiments are to be performed.

- Inorganic Two experiments to be performed. Gravimetric estimation compulsory carrying 08 marks. (Manipulation 3 marks). Anyone experiment from synthesis and analysis carrying 04 marks.
   Organic-Two experiments to be performed.
  - Qualitative analysis of organic mixture containing two solid components. compulsory carrying 08 marks (03 marks for each compound and two marks for separation).
  - One experiment from synthesis of organic compound (Single step) carrying 04 marks.
- 3. Physical-One physical experiment carrying 12 marks.
- 4. Sessional 04 marks.
- 5. Viva Voce 10 marks.

In case of Ex-Students one mark each will be added to Gravimetric analysis and Qualitative analysis of organic mixture and two marks in Physical experiment.

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#### PHYSICS

#### Objectives :

Present course is aimed to provide ample knowledge of basics of Physics which are relevant to the understanding of modern trends in higher physics.

The first paper is aimed at preparing the back ground of modern physics which includes the relativistic and quantum ideas mainly councerned with atomic, molecular and nuclear physics. It consistutes an essential pre-requisite for better understanding of any branch of physics.

The second paper is mainly concerned with Solid State Physics, Solid State Devices and Electronics. This course is quite important from the applicational aspects of modern electronic devices. It also forms the basis of advance electronics including communication technology to be covered at higher level.

The experiments are based mostly on the contents of the theory papers so as to provide comprehensive insight of the subject.

#### Scheme of Examination :

- 1. There shall be two theory papers of 3 hours duration each and one practical paper of 4 hours duration. Such paper shall carry 50 marks.
- 2 Each theory paper will comprise of 5 units. Two questions will be in each unit and the student will have the choice to answer one out of the two.
- 3. Numerical problems of about 30 percent will compulsorily be asked in each theory paper.
- 4. In practical paper each student has to perform two experiments during examination.
- 5. Practical examination will be of 4 hours duration. The distribution of practical marks will be as follows.

Experiments : 15 + 15 = 30, Viva-voce :10 Internal Assessment - 10.

#### PAPER - I (Paper Code-0893)

# RELATIVITY, QUANTUM MECHANICS, ATOMIC MOLECULAR AND NUCLEAR PHYSICS.

- UNIT-I Reference systems, inertial frames, Galilean invariance and conservation laws, propogation of light, Michelson-Morley experiment, search for ether. Postulates for the special theory of ralativity, Lorentz tranformations, length contraction, time dilation, velocity additon theorem, variation of mass with velocity, mass-energy equivalence, particle with zero rest mass, Compton effect.
- UNIT-II Origin of the quantum theory : Failure of classical physics to explain the phenomena such as black-body spectrum, photoelectric effect. Wave-particle duality and uncertainty principle : de Broglie's hypothesis for matter waves : the concept of wave and group velocities, evidence for diffraction & interference of particles, experimental demonstration of mater waves. Davisson and Germer's experiment.

Consequence of de Broglie's concepts, quantisation in hydrogen atom, energies of a particle in a box, wave packets.

Consequence of the uncertainty relation : gamma ray microscope, diffraction at a slit.

**UNIT-III** Quantum Mechanics : Schrodinger's equation. Postulatory basis of quantum mechanics, operators, expectation values, transition probabilities, applications to particle in a oneand three dimensional boxes, harmonic oscillator in one dimension, reflection at a step potential, transmission across a potential barrier.

Hydrogen atom : natural occurrence of n, and m quatum numbers, the related physical quantities.

**UNIT-IV** Spectra of hydrogen, deuteron and alkali atoms spectral terms, doublet fine structure, screening constants for alkali spectra for s,p, d and f states, selection rules.

Discrete set of electronic energies of moleculers, quantisation of vibrational and rotational energies, determination of internuclear distance, pure rotatinal and rotation vibration spectra. Dissociation limit for the ground and other electronic states, transition rules for pure vibration and electronic vibration spectra.

Raman effect, Stokes and anti-Stokes lines, complimentary character of Raman and infrared spectra, experimental arrangements for Raman spectroscopy.

UNIT-V Interaction of charged particles and neutrons with mater, working of nuclear detectors, G-M counter, proportional counter and scintillation counter, cloud chambers, spark chamber, emulsions.

Structure of nuclei, basic properties ( ,  $\mu$  Q and binding energy), deuteron binding energy, p-p and n-p scattering and general concepts of nuclear forces, Beta decay, range of alpha particle Geiger-Nuttal law. Gamow's explanation of beta decay, alpha decay and continuous and discrete spectra.

Nuclear reactions, channels, compound nucleus, direct reaction (concepts). Shell model & liquid drop model, fission and fusion (concepts), energy production in stars by p-p and carbon cycles (concepts).

#### TEXT AND REFERENCE BOOKS :

- 1. H.S. Mani and G.K. Metha : "Introduction to Modern Physics"'' (Affiliated East-West Press, 1989)
- 2. A Beiser, "Prospective of Modern Physics"
- 3. H.E. White, Introduction to Atomic Physic"
- 4. Barrow, "Introduction to Molecular Physics!"
- R.P. Feynman, R.B. Leighton and M Sands, "The Feynman Lectures on Physics", Vol.III (B.I. Publications, Bombay, Delhi, Calcutta, Madras).
- 6. T.A. Littlefield and N Thorley, "Atomic and Nuclear Physics" (Engineering Language Book Society)
- 7. H.A. Enge, "Introduction to Nuclear Physics", (Addision-Wesly)
- 8. Eisenberg and Resnik, "Quantum Physics of Atoms, Molecules, Solids, Nuclei and Particles" (John Wiley)
- 9. D.P. Khandelwal, "Optics and Atomic Physics", (Himalaya Publishing House, Bombay, 1988).

#### PAPER-II (Paper Code-0894)

#### SOLID STATE PHYSICS, SOLID STATE DEVICES AND ELECTRONICS

UNIT-I Amorphous and crystalline solids, Elements of symmetry, seven crystal system, Cubic lattices, Crystal planes, Miller indices, Laue's equation for X-ray diffraction, Bragg's Law. Bonding in solids, classification. Cohesive energy of solid.

Madelung constant, evaluation of Parameters.

Specific heat of solids, classical theory (Dulong-Petit's law). Einstein and Debye theories. Vibrational modes of one dimensional monoatomic lattice, Dispersion relation, Brillouin Zone.

**UNIT-II** Free electron model of a metal, Solution of one dimensional Schrodiner equation in a constant potential. Density of states. Fermi Energy, Energy bands in a solid (Kronig-Penny model without mathematical details). Metals, Insulator and Semiconductors. Hall effect.

Dia, Para and Ferromagnetism. Langevin's theory of dia and para-magnetism. Curie-Weiss's Law. Qualitative description of Ferromagnetism (Magnetic domains), B-H. curve and Hysteresis loss.

- UNIT-III Intrinsic semiconductors, carrier concentration in thermal equilibrium, Fermi level, Impurity semiconductor, doner and acceptor levels, Diode equation, junctions, junction breakdown, Depletion width and junction capacitance, abrupt junction, Tunnel diode, Zener diode. Light emmitting diode, solar cell, Bipolar transistors, pnp and npn transistors, characteristics of transistors, different configurations, current amplification factor, FET.
- **UNIT-IV** Half and full wave rectifier, rectifier efficiency ripple factor, Bridge rectifier, Filters, Inductor filter, T and N filters, Zener diode, regulated power supply. Applications of transistors.

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Bipolar Transistor as amplifier.

Single stage and CE small signal amplifiers, Emitter followers, Transistoras power amplifier, Transistor as oscillator, Wein-Bridge Oscillator and Hartley oscillator.

**UNIT-V** Introduction to computer organisation, time sharing and multi programming systems, window based word processing packages, MS Word.

Introduction to C programming and application to simple problems of arranging numbers in ascending / descending orders : sorting a given data in an array, solution of simultaneous evation.

#### BOOKS RECOMMENDED :

- 1. Introduction to solid state physics : C.Kittel
- 2. Solid State Physics : A.J. Dekkar
- 3. Electronic Circuits : Mottershead
- 4. Electronic Circuits : Millman and Halkias
- 5. Semiconductor Devices : S.M. Sze
- 6. Computer fundamental : balaguara Swami

#### PRACTICALS

MINIMUM 16 (Sixteen) Out of the following or similar experiment of equal standard :

- 1. Determination of Planck's constant
- 2. Determination of e/m by using Thomson's tube
- 3. Determination of e by Millikan's method
- 4. Study of spectra of hydrogen and deuterium (Rydberg constant and ratio of masses of electron proton)
- 5. Absorption spectrum of iodine vapour
- 6. Study of alkali or alkaline earth spectra using a concave gra's
- 7. Study of Zeeman effect for determination of Lande g-factor.
- 8. Analysis of a given band spectrum.
- 9. Study of Raman spectrum using laser as an excitation source.
- 10. Study of absorption of alpha and beta rays.
- 11. Study of statistics in radioactive measurement.
- 12. Coniometric study of crystal faces.
- 13. Determination of dielectric constant
- 14. Hysteresis curve of transformer core
- 15. Hall-probe method for measuement of magnetic field
- 16. Specific resistance and energy gap of a semiconductor
- 17. Characteristics of transistor
- 18. Characteristics of a tunnel diode
- 19. Study of voltage regulation system
- 20. Study of a regulated power supply
- 21. Study of lissajous figures using a CRO
- 22. Study of VTVM
- 23. Study of RC and TC coupled amplifiers
- 24. Study of AF and RF oscillators
- 25. Find roots of f(x)=0 by using Newton-Raphson method
- 26. Find roots of F(x)=0 by using secant method
- 27. Integration by Simpson rule
- 28. To find the value of V at
- 31. String manipulations
- 32. Towers of Honoi (Nonrecursive)
- 33. Finding first four perfect numbers
- 34. Quadratic interpolation using Newton's forward-difference formula of degree two.

#### TEXT AND REFERENCE BOOKS :

- 1. B.G. Strechman ; "Solid State Electronic Devices". II Edition (Prentice-Hall of India, New Delhi, 1986)
- 2 W.D. Stanley ; "Electronic Devices, Circuits and Applications" (Prentice Hall, New Jersey, USA, 1988)
- 3. S. Lipschutsz and A Poe ; "Schaum's Outline of Theory and Problems of Programming with Fortran" (McGraw-Hill Book Co. Singapore, 1986)
- 4. C Dixon ; "Numerical Analysis"

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#### MATHEMATIS

There shall be three theory papers. Two compulsory and one optional Each paper carrying 50 marks is divided into five units and each unit carry equal marks.

#### PAPER - I (Paper Code-0898)

#### ANALYSIS

#### REAL ANALYSIS

- UNIT-I Series of arbitrary terms. Convergence, divergence and Oscillation. Abel's and Dirichlet's test. Multiplication of series. Double series. Partial derivation and differentiability of real-valued functions of two variables. Schwarz and Young's theorem. Implicit function theorem. Fourier series. Fourier expansion of piecewise monotonic functions.
- **UNTT-II** Riemann integral. Intergrability of continuous and monotonic functions. The fundamental theorem of integral calculus. Mean value theorems of integral calculus. Improper integrals and their convergence, Comparison tests. Abel's and Dirichlet's tests. Frullani's integral. Integral as a function of a parameter. Continuity, derivability and integrability of an integral of a function of a parameter.

#### COMPLEX ANALYSIS

**UNIT-III** Complex numbers as ordered pairs. Geometric representation of Complex numbers. Stereographic projection.

Continuity and differentiability of Complex functions. Analytic functions. Cauchy-Riemann equations. Harmonic functions.

Elementary functions. Mapping by elementary functions.

Mobius transformations. Fixedpoints, Cross ratio. Inverse points and critical mappings. Conformal mappings.

#### METRIC SPACES

- **UNIT-IV** Definition and examples of metric spaces. Neighbourhoods, Limit points, Interior points, Open and closed sets, Closure and interior. Boundary points, Sub-space of a metric space. Cauchy sequences, Completeness, Cantor's intersection theorem. Contraction principle, Construction of real numbers as the completion of the incomplete metric space of rationals. Real numbers as a complete ordered field.
- **UNIT-V** Dense subsets. Baire Category theorem. Separable, second countable and first countable spaces. Continuous functions. Extension theorem. Uniform continuity, Isometry and homeomorphism. Equivalent metrics. Compactness, Sequential compactness. Totally bounded spaces. Finite intersection property. Continuous functions and compact sets, Connectedness, Components, Continuous functions and connected sets.

#### **REFERENCES** :

- 1. T.M. Apostol, Mathematical Analysis, Narosa Publishing House, New Delhi, 1985.
- 2. R.R. Goldberg, Real Analysis, Oxford & IBH publishing Co., New Delhi, 1970.
- 3. S. Lang, Undergraduate Analysis, Springer-Verlag, New York, 1983.
- 4. D. Somasundaram and B. Choudhary, A First Coarse in Mathematical Analysis, Narosa Publishing House, New Delhi, 1997.
- 5 Shanti Narayan, A Course of Mathematical Analysis, S. Chand & Co. New Delhi.

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- 6. P.K. Jain and S.K. Kaushik, An introduction to Real Analysis, S. Chand & Co., New Delhi, 2000.
- 7. R.v. Churchill & J.W. Brown, Complex Variables and Applications, 5\*" Edition, McGraw-Hill, NewYork, 1990.
- 8. MarkJ. Ablowitz & A.S.Fokas, Complex Variables : Introduction and Applications, Cambridge University Press, South Asian Edition, 1998.
- 9. Shanti Narayan, Theory of Functions of a Complex Variable, S. Chand & Co., New Delhi.
- 10. E.t. Copson, Metric Spaces, Cambridge University Press, 1968.
- 11. P.K. Jain and K. Ahmad, Metric Spaces, Narosa Publishing House, New Delhi, 1996.
- 12. G.F. Simmons, Inroductin to Topology and Modern Analysis, McGraw-Hill, 1963.

#### PART - II (Paper Code-0899) ABSTRACT ALGEBRA

- **UNIT-I** Group-Automorphisms, inner automorphism. Automorphism groups and their computations, Conjugacy relation, Normaliser, Counting principle and the class equation of a finite group. Center for Group of prime-order, Abelianizing of a group and its universal property. Sylow's theorems, Sylow subgroup, Structure theorem for finite Abelian groups.
- UNIT-II Ring theory-Ring homomorphism. Ideals and Quotient Rings. Field of Quotients of an Integral Domain, Euclidean Rings, Polynomial Rings, Polynomials over the Rational Field. The Eisenstien Criterion, Polynomial Rings over Commutative Rings, Unique factorization domain. R unique factorisation domain implies so is R [x1, x2 .... xn] Modules, Submodules, Quotient modules, Homomorphism and Isomorphism theorems.
- **UNIT-III** Definition and examples of vector spaces. Subspaces. Sum and direct sum of subspaces, Linear span. Linear dependence, independence and their basic properties. Basis. Finite dimensional vector spaces. Existence theoremfor bases. Invariance of the number of elements of a basis set. Dimension. Existence of complementary subspace of a subspace of a finite dimensional vector space. Dimension of sums of subspaces. Quotient space and its dimension.
- **UNIT-IV** Linear transformations and their representation as matrices. The Algebra of linear transformations. The rank nullity theorem. Change of basis. Dual space. Bidual space and natural isomorphism. Adjoint of a linear transformation. Eigenvalues and eigenvectors of a linear transformation. Diagonalisation. Annihilator of a subspace. Bilinear, Quadratic and Hermitian forms.
- UNIT-V Inner Product Spaces-Cauchy-Schwarz inequality. Orthogonal vectors. Orthogonal Complements. Orthonormal sets and bases. Bessel's inequality for finite dimensional spaces. Gram-Schmidt Orthogonalization process.

#### **REFERENCES** :

- 1. I.N. Herstein, Topics in Algebra, Wiley Eastern Ltd., New Delhi, 1975.
- 2 N. Jacobson, Basic Algebra, Vols. I & II. W.H. Freeman, 1980 (also published by Hindustan Publishing Company).
- 3. Shanti Narayan, A Text Book of Modern Abstract Algebra, S.Chand & Co. New Delhi.
- 4. K.B. Datta, Matrix and Linear Algebra, Prentice Hall of India Pvt. Ltd., New Delhi, 2000.
- 5. P.B. Bhattacharya, S.K. Jain and S.R. Nagpal, Basic Abstract Algebra (2"" Edition) Cambridge University Press, Indian Edition, 1997.

- 6. K. Hoffman and R. Kunze, Linear Algebra, 2"" Editon, Prentice Hall. Englewood Cliffs, New Jersey, 1971.
- 7. S.K. Jain, A. Gunawardena & P.B. Bhattacharya, Basic Linear Algebra with MATLAB. Key College Publishing (Springer-Verlag) 2001.
- 8. S. Kumaresan, Linear Algebra, A.Geometric Approach, Prentice-Hall of India, 2000.
- 9. Vivek Sahai and Vikas Bist, Algebra, Norosa Publishing House, 1997.
- 10. I.S. Luther and I.B.S.Passi, Algebra, Vol. I-Groups, Vol. II-Rings. Narosa Publishing House (Vol. I-1996, Vol. II-1999)
- 11. D.S. Malik, J.N. Mordeson, and M.K. Sen, Fundamentals of Abstract Algebra, McGraw-Hill International Edition, 1997.

#### PAPER - III - (OPTIONAL)

#### (I) PRINCIPLES OF COMPUTER SCIENCE (Paper Code-0900)

- UNIT-I Data Storage Storage of bits. Main Memory. Mass Storage. Coding Information of Storage. The Binary System. Storing integers, storing fractions, communication errors. Data Manipulation - The Central Processing Unit. The Stored-Program Concept. Programme Execution. Other Architectures. Arithmetic/Logic Instructions. Computer-Peripheral Communication.
- UNIT-II Operating System and Networks The Evolution of Operating System. Operating System Architecture. Coordinating the Machine's Activities. Handling Competition Among Process. Networks. Networks Protocol.

**Software Engineering -** The Software Engineering Discipline. The Software Life Cycle. Modularity. Development Tools and Techniques. Documentation. Software Ownership and Liability.

**UNIT-III Algorithms** - The Concept of an Algorithm, Algorithm Representation. Algorithm Discovery. Iterative Structures. Recursive Structures. Efficiency and Correctness. (Algorithms to be implemented in C<sup>++</sup>).

**Programming Languages -** Historical Perspective. Traditional Programming Concepts, Program Units. Language Implementation. Parallel Computing. Declarative Computing.

UNIT-IV Data Structures - Arrays. Lists. Stacks. Queues. Trees. Customised Data Types. Object Oriented Programming.

File Structure - Sequential Files. Text Files. Indexed Files. Hashed Files. The Role of The Operating System.

**Database Structure -** General Issues. The Layered Approach to Database Implementation. The Relational Model. Object-Oriented Database. Maintaining Database Integrity. E-R models.

UNIT-V Artifical Intelligence - Some Philosophical Issues. Image Analysis. Reasoning, Control System Activities. Using Heuristics. Artificial Neural Networks. Application of Artificial Intelligence.

**Theory of Computation -** Turning Machines. Computable functions. A Non computable Function. Complexity and its Measures. Problem Classification.

#### **REFERENCES** :

- 1. J. Glen Brookshear, Computer Science : An Overview, Addition -Wesley.
- 2. Stanley B. Lippman, Josee Lojoie, C<sup>++</sup> Primer (3rd Edition), Addison-Wesley.

#### PAPER - III - (OPTIONAL) (II) DISCRETE MATHEMATICS (Paper Code-0901)

UNIT-I Sets and Propositions - Cardinality. Mathematical Induction, Principle of Inclusion and exclusion.

Computability and Formal Languages - Ordered Sets. Languages. Phrase Structure Grammars. Types of Grammars and Languages. Permutations. Combinations and Discrete Probability.

UNIT-II Relations and Functions - Binary Relations, Equivalence Relations and Partitions. Partial Order Relations and Lattices. Chains and Antichains. Pigeon Hole Principle. Graphs and Planar Graphs - Basic Terminology. Multigraphs. Weighted Graphs. Paths and Circuits. Shortest Paths. Eulerian Paths and Circuits. Travelling Salesman Problem. Planner Graphs.

TREES.

- **UNIT-III Finite State Machines -** Equivalent Machines. Finite State Machines as Language Recognizers. Analysis of Algorithms Time Complexity. Complexity of Problems. Discrete Numeric Functions and Generating Functions.
- UNIT-IVI Recurrence Relations and Recursive Algorithms Linear Recurrence Relations with Constant Coefficients. Homogeneous Solutions. Particular Solution. Total Solution. Solution by the Method of Generating Functions. Brief review of Groups and Rings.
- **UNIT-V Boolean Algebras -** Lattices and Algebraic Structures. Duality, Distributive and Complemented Lattices. Boolean Lattices and Boolean Algebras. Boolean Functions and Expressions. Prepositional Calculus. Design and Implementation of Digital Networks. Switching Circuits.
- **REFERENCES** :

C.L. Liu, Elements of Discrete Mathematics, (Second Edition), McGraw Hill, International Edition, Computer Science Series, 1986.

#### PAPER - III - (OPTIONAL)

#### (III) APPLICATION OF MATHEMATICS IN FINANCE AND INSURANCE (Paper Code-0902)

#### Application of Mathematics in Finance :

**UNIT-I** Financial Management - An overview. Nature and Scope of Financial Management. Goals of Financial Management and main decisions of financial management. Difference between risk, speculation and gambling.

Time value of Money-Interest rate and discount rate. Present value and future valuediscrete case as well as continuous compounding case. Annuities and its kinds.

- UNIT-II Meaning of return. Return as Internal Rate of Return (IRR). Numerical Methods like Newton RaphsonMethod to calculate IRR. Measurement of returns under uncertainty situations. Meaning of risk. Difference between risk and uncertainty. Types of risks. Measurement of risk. Calculation of security and Portfolio Risk and Return-Markowitz Model. Sharpe's Single Index Model Systematic Risk and Unsystematic Risk.
- **UNTI-III** Taylor series and Bond Valuation. Calculation of Duration and Convexity of bonds. Financial Derivaties - Futures. Forward. Swaps and Options. Call and Put Option. Call and Put Parity Theorem. Pricing of contingent claims through Arbitrage and Arbitrage Theorem.

#### Application of Mathematics in Insurance

- **UNIT-IV** Insurance Fundamentals Insurance defined. Meaning of loss. Chances of loss, peril, hazard, and proximate cause in insurance. Costs and benefits of insurance to the society and branches of insurance-life insurance and various types of general insurance. Insurable loss exposuresfeature of a loss that is ideal for insurance. Life Insurance Mathematics Construction of Mortality Tables. Computation of Premium of Life Insurance for a fixed duration and for the whole life.
- UNIT-V Determination of claims for General Insurance Using Poisson Distribution and Negative Binomial Distribution-the Polya Case. Determination of the amount of Claims in General Insurance - Compound Aggregate claim model and its properties, and claims of reinsurance. Calculation of a compound claim density function. F-recursive and approximate formulae for F.

#### **REFERENCES** :

- 1. Aswath Damodaran, Corporate Finance Theory and Practice, John Wiley & Sons Inc.
- 2. John C. Hull, Options, Futures, and Other Derivatives, Prentice-Hall of Indian Private Limited.
- 3. Sheldon M. Ross, An Introduction to Mathematical Finance, Cambridge University Press.
- 4. Mark S. Dorfman, Introduction to Risk Management and Insurance, Prentice Hall, Englwood Cliffs, New Jersey.
- 5. C.D. Daykin, T. Pentikainen and M. Pesonen, Practical Risk Theoryfor Actuaries, Chapman & Hall.

#### PAPER - III - (OPTIONAL)

Theory component will have maximum marks 30. Practical component will have maximum marks 20.

#### (IV) PROGRAMMING IN C AND NUMERICAL ANALYSIS (Thoury & Practical) (Paper Code-0903)

UNIT-I Programmer's model of a computer. Algorithms. Flow Charts. Data Types. Arithmetic and input/output instructions. Decisions control structures. Decision statements. Logical and Conditional operators. Loop. Case control structures. Functions. Recursions. Preprocessors. Arrays. Puppetting of strings. Structures. Pointers. File formatting.

#### Numerical Analysis

- UNIT-II Solution of Equations : Bisection, Secant, Regula Falsi, Newton's Method, Roots of Polynomials : Interpolation : Lagrange and Hermite Interpolation, Divided Differences, Difference Schemes, Interpolation Formulasusing Differences. Numerical Differentiation. Numerical Quadrature : Newton-Cote's Formulas. Gauss Quadrature Formulas, Chebychev's Formulas.
- UNIT-III Linear Equations : Direct Methods for Solving. Systems of Linear Equations (Guass Elimination, LU Decomposition, Cholesky Decomposition), Iterative Methods (Jacobi, GaussSeidel, Relaxation Methods). The Algebraic Eigenvalue problem : Jacobi's Method, Givens' Method, Householder's

Method, Power Method, QR Method, Lanezos' Method.

UNIT-IV Ordinary Differential Equations : Euler Method, Single-step Methods, Runge-Kutta's Method, Multi-step Methods, Milne-Simpson Method, Methods Based on Numerical

B.Sc.-III

Integration, Methods Based on Numerical Differentiation, Boundary Value Problems, Eigenvalue Problems.

Approximation : Different Types of Approximation, Least Square Polynomial Approximation, Polynomial Approximation using Orthogonal Polynomials, Approximation with Trigonometric Functions, Exponential Functions, Chebychev Polynomials, Rational Functions.

Unit-V Monte Carlo Methods Random number generation, congruential generators, statistical tests of pseudo-random numbers. Random variate generation, inverse tranform method, composition method, acceptancerejection method, generation of exponential, normal variates, binomial and Poisson variates.

Monte Carlo integration, hit or miss Monte Carlo integration, Monte Carlo integration for improper integrals, error analysis for Monte Carlo integration.

#### **REFERENCES** :

- 1. Henry Mullish& Herbert L. Cooper, Spirit of C : An Introductionto Modern Programming, Jaico Publishers, Bombay.
- 2 B.W. Kernighan and D.M. Ritchie. The C Programming Language 2"d Edition, (ANSI features) Prentice Hall, 1989.
- 3. Peter A Darnel and Philip E. Margolis, C : A Software Engineering Approach, Narosa Publishing House, 1993.
- 4. Robert C. Hutehisonand Steven B. Just, Programming using C Language, McGraw Hill, 1988.
- 5. Les Hancock and Morris Krieger, The C Primer, McGraw Hill, 1988.
- 6. V. Rajaraman, Programming in C, Prentice Hall of India, 1994.
- 7. Byron S. Gottfried, Theory and Problems of Programming with C, tata McGraw-Hill Publishing Co. Ltd., 1998.
- 8. C.E. Froberg, Introduction to Numerical Analysis, (Second Edition), Addison-Wesley, 1979.
- 9. James B. Scarborough, Numerical Mathematical Anasysis, Oxford and IBHPublishing Co. Pvt. Ltd. 1966.
- Melvin J. Maron, Numerical Analysis A Practical Approach, Macmillan publishing Co., Inc. New York, 1982.
- 11. M.K. Jain, 'S.R.K. lyengar, R.K. Jain, Numerical Methods Problems and Solutions, New Age International (P) Ltd., 1996.
- 12. M.K. Jain, S.R.K. lyengar, R.K. Jain, Numerical Methods for Scientific and Engineering Computation, New Age International (P) Ltd., 1999.
- 13. R.Y. Rubistein, Simulation and the Monte Carlo Methods, John Wiley, 1981.
- 14. D.J. Yakowitz Computational Probability and Simulation, Addison-Wesley, 1977.

#### PAPER - III - (OPTIONAL)

#### (IV) PRACTICAL

#### PROGRAMMING IN C AND NUMERICAL ANALYSIS

#### LIST OF PRACTICAL TO BE CONDUCTED...

- 1. Write a program in C to find out the largest number of three integer numbers.
- 2 Write a program in C to accept monthly salary from the user, find and display income tax with the help of following rules :

Monthly Salary	Income Tax
9000 or more	40% of monthly salary
7500 or more	30% of monthly salary
7499 or less	20% of monthly salary

- 3. Write a program in C that reads a year and determine whether it is a leap year or not.
- 4. Write a program in C to calculate and print the first n terms of fibonacci series using looping statement.
- 5. Write a program in C that reads in a number and single digit. It determines whether the first number contains the digit or not.
- 6. Write a program in C to computes the roots of a quadratic equation using case statement.
- 7. Write a program in C to find out the largest number of four numbers using function.
- 8. Write a program in C to find the sum of all the digits of a given number using recursion.
- 9. Write a program in C to calculate the factorial of a given number using recursion.
- 10. Write a program in C to calculate and print the multiplication of given 2D matrices.
- 11. Write a program in C to check that whether given string palindrome or not.
- 12. Write a C function seriessum () to calculate the sum of series : 1+X+1/2! X^2+1/3! X^3+..... 1/n! X^n
- 13. Write a program in C to determine the grade of all students in the class using Structure. Where structure having following members - name, age, roll, sub 1, sub2, sub3, sub4 and total.
- 14. Write a program in C to copy one string to another using pointers. (Without using standard library functions).
- 15. Write a program in C to store the data of five students permanently in a data file using file handling.

#### PAPER - III - (OPTIONAL)

#### (V) MATHEMATICAL MODELLING (Paper Code-0904)

#### The Process of Applied mathematics.

- **UNIT-I** Setting up first-order differential equations Qualitative solution sketching. Difference and differential equation growth models.
- **UNIT-II** Single-species population models. Population growth-An age structure model. The spread of Technological innovation.
- UNIT-III Higher-order linear models- A model for the detection of diabetes. Combat modes. Traffic models - Car-following models. Equilibrium speed distributions.
- UNIT-IV Nonlinear population growth models. Prey-Predator models. Epidemic growth models. Models from political science - Proportional representation-cumulative voting, comparison voting.
- **UNIT-V** Applications in Ecological and Environmental subject areas- Urban waste water management planning.

#### **REFERENCES** :

- 1. Differential equation models, Eds. Martin Braun, C.S. Coleman, D.A. Drew.
- 2. Political and Related Models, Steven. J. Brams, W.F. Lucas, P.D. Straftin (Eds.)
- 3. Discrete and System models, W.F. Lucas, F.S. Roberts, R.M. Thrall.
- 4. Life Science Models, H.M. Roberts & M. Thompson.
- All volumes published as modules in applied Mathematics, Springer-Verlag, 1982.
- 5. Mathematical Modelling by J.N. Kapur, New Age International, New Delhi.

#### BOTANY

# PAPER-I (Paper Code-0915) PLANT PHYSIOLOGY, BIOCHEMISTRY AND BIOTECHNOLOGY

**UNIT-I** Plant-water relations : Importance of water to plant life ; physical properties of water; diffusion and osmosis; absorption, transport of water and transpiration ; physiology of stomata.

Mineral nutrition : Essential macro and micro-elements and their role ; mineral uptake; deficiency and toxicity symptoms.

- UNIT-II Transport of organic substances : Mechanism of phloem transport ; source-sink relationship ; factors affecting translocation. Basic of enzymology : Discovery and nomenclature ; characteristics of enzymes ; concept of holoenzyme apoenzyme, coenzyme and cofactors ; regulation of enzyme activity, mechanizm of action. Photosynthesis : Significance ; historical aspects ; photosynthetic pigments ; action spectra and enhancement effects ; concept of two photosystems; Z-scheme ; photo-
- phosphorylation ; Calvin cycle ; C4 pathway ; CAM plants ; photorespiration.
  UNIT-III Respiration : ATP the biological energy currency ; aerobic and anaerobic respiration;
  Kreb's cycle, electron transport mechanism (chemi-osmotic theory) ; redox potential;
  oxidative phosphorylation ; pentose phosphate pathway.
  Nitrogen and lipid metobolism : Biology of nitrogen fixation ; importance of nitrate
  reductase and its regulations ; ammonium assimilation ; structure and function of lipids;
  fatty acid biosynthesis ; Beta-oxidation ; saturated and unsaturated fatty acids; storage
  and mobilization of fatty acids.
- **UNIT-IV** Growth and development : Definitions ; phases of growth and development ; kinetics of growth, seed dommancy, seed germination and factors of their regulation ; plant movements ; the concept of photoperiodism ; physiology of flowering ; florigen concept; biological clocks ; physiology of senescence, fruit ripening ; plant hormones auxins, gibberellins, cytokinins, abscisic acid and ethylene, history of their discovery, biosynthesis and mechanism of action ; photomorphogenesis ; phytochromes and cryptochromes, their discovery, physiological role and mechanism of action.
- UNIT-IV Genetic engineering : Tools and techniques of recombinant DNA technology ; cloning vectors ; genomic and cDNA library ; transposable elements ; techniques of gene mapping and chromosome walking. Biotechnology : Functional definition ; basic aspects of plant tissue culture ; cellular

totipotency, differentiation and morphogenesis; biology of Agrobacterium; vectors for gene delivery and marker genes; salient achievements in crop biotechnology.

#### PAPER-II (Paper Code-0916)

#### ECOLOGY AND UTILIZATION OF PLANTS M.M. : 50

UNIT-I Plants and environment : Atmosphere (gaseous composition), water (properties of water cycle), light (global radiation, photosynthetically active radiation), temperature, soil (development, soil profiles, physico-chemical properties), and biota. Morphological, anatomical and physiological responses of plants to water (hydrophytes and verrebutes) temperature (thermospicalicity) light (photoperiodism)

phytes and xerophytes), temperature (thermoperiodicity), light (photoperiodism, heliophytes and sciophytes) and salinity.

UNIT-II	Community Ecology : Community characteria	stics, frequency, density, cover, life forms			
	biological spectrum ; ecological success	ion.			
	Ecosystems : Structure, abiotic and b	iotic components ; food chain, food web,			
	ecological pyramids, energy flow ; biog	geochemical cycles of carbon, nitrogen and			
	phosphorus.				
UNIT-III	Population ecology : Growth curves ; ea	cotypes ; ecads.			
	Biogeographical regions of India.				
	Vegetation types of India : Forests and	grasslands.			
UNIT-IV	Utilization of Plants				
	Food plants : Rice, wheat, maize, potato, sugercane.				
	Fibres : Cotton and jute.				
	Vegetable oils : Groundnut, mustard an	d coconut			
	General account of sources of firewood	, timber and bamboos.			
UNIT-V	Spices : General account.				
	Medicinal plants : General account				
	Beverages : Tea and coffee.				
	Rubber.				
	PRACTICAL	SCHEME M.M. 50			
	01. Physiology	08			
	02. Ecology	08			
	03. Utilization of Plants	05			
	04. Biochemistry / Biotechnology	05			
	05. Spotting (1-5 spots)	10			
	06. Project work	04			
	07. Viva V.	05			
	08. Sessional	05			

#### Suggested Laboratory Exercises

1. To study the permeability of plasma membrance using different concentrations of organicsolvents.

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- 2. To study the effect of temperature on permeability of plasma membrane.
- 3. To prepare the standard curve of protein and determine the protein content in unknown samples.
- 4. To study the enzyme activity of catalase and peroxidase as inflenced by pH and temperature.
- 5. Comparison of the rate of respiration of various plant parts.
- 6. Separation of chloroplast pigment by solvents method.
- 7. Determinig the osmotic potential of vacuolar sap by plsmolytic method.
- 8. Determining the water potental of any tuber.
- 9. Separation of amino acids in a mixtue by paper chromatography and their identification by comparison with standards.
- 10. Bioassay of auxin, cytokinin, GA. ABA and ethylene using appropriate plant material.
- 11. Demonstration of the technique of micropropagation by using different explants, e.g. axillary buds, shoot meristems.
- 12. Demonstration of the technique of anther culture.
- 13. Isolation of protoplasts from different tissues using commercially available enzymes.
- 14. Demonstration of root and shoot formation from the apical and basal portion of stem segments in liquid medium containing different hormones.

#### Suggested Laboratory Expercises (Ecology)

- 1. To determine minimum number of quadrats required for reliable estimate of biomass in grasslands.
- 2. To study the frequency of herbaceous species in grassland and to compare the frequency distribution with Raunkair's Standard Frequency Diagram.
- 3. To estimate importance Value Index for grassland species on the basis of relative frequency, relative density and relative biomass in protected and grazed grassland.
- 4. To measure the vegetation cover of grassland through point frame method.
- 5. To measure the aboveground plant biomass in a grassland.
- 6. To determine Kemp's constant for dicot and monocot leaves and to estimate the leaf area index of a grassland community.
- 7. To determine diversity indices (richness, Simpson, Shannon-Wiener) in grazed and protected grassland.
- 8. To estimate bulk density and porosity of grassland and woodland soils.
- 9. To determine moisture content and water holding capacity of grassland and woodland soil.
- 10. To study the vegetation structure through profile diagram.
- 11. To estimate transparency, pH and temperature of different water bodies.
- 12. To measure dissolved oxygen content in polluted and unpolluted water samples.
- 13. To estimate salinity of different water samples.
- 14. To determine the percent leaf area injury of different leaf samples collected around polluted sites.
- 15. To estimate dust holding capacity of the leaves of different plant species.

#### PRACTICAL

#### Suggested Laboratory Exercises (for Utilization of Plants)

- 1. Food Plants : Study of the morphology, structure and simple microchemical tests of the food storing tissues in rice, wheat, maize, potato and sugarcane, Microscopic exmaination of starch in these plants (excepting sugarcane)
- 2 Fibres : Study of cotton flowers, sectioning of the cotton ovules/developing seeds to trace the origin and development of cotton fibres. Microscopic study of cotton and test for cellulose, Sectioning and staining of jute stem to show the location and development of firbres. Microscopic structure. Test for lignocellulose.
- 3. Vegetable oils : Study of hand sections of groundnut, mustard and coconut and staining of oil droplets by Sudan III and Sudan Black.
- 4. Field visits : To study sources of firewood (10 plants), timber-yielding trees (10 trees) and bamboos. A list to be prepared mentioning special features.
- 5. Spices : Examine black pepper, cloves, cinnamon (hand sections) and opened fruits of cardamom and describe them briefly.
- 6. Preparation of an illustrated inventory of 10 medicinal plants used in indigenous systems of medicine or allopathy : Write their botanical and common names, parts used and disease/disorders for which they are prescribed.
- 7. Beverages : Cut Sections of boiled coffee beans and tea leaves to study the characterstic structural features.
- 8. Rubber : Collect illustrative materials of Hevea brasillensis ; morphology of the plant and tapping practices, history of rubber. List the many uses of rubber.

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#### ZOOLOGY

#### Paper-I (Paper Code-0917)

Ecology, Environmental-biology; Toxicology; Microbiology and Medical Zology. 2 Attempting one question from each unit will be compulsory. 100% chice be given.

# UNIT-I (ECOLOGY)

- 1. Aims and scopes of Ecology.
- 2. Major ecosystems of the world-Brief intruduction
- 3. Population- Characteristics and regualtion of densities.
- 4. Communities and Ecosystems.
- 5. Biogeochemical cycles
- 6. Air and water pollution
- 7. Ecological succession

#### UNIT-II (ENVIRONMENTAL BIOLOGY)

- 1. Laws of limiting factors
- 2. Food chain in a freshwater ecosystem.
- 3. Energy flow in ecosystem-Trophic levels
- 4. Conservation of Natural resources
- 5. Environmental impact Assessment

#### UNIT-III (TOXICOLOGY)

- 1. Definition of Toxicity
- 2. Classification of toxicants
- 3. Principle of systematic toxicology
- 4. Toxic agents and their action-Metallic and inorganic agents
- 5. Animal poisons Snake-venom, Scorpion and bee poisoning
- 6. Food pisoning

#### UNIT-IV (MICROBIOLOGY)

- 1. General and Applied microbiology.
- 2. Microbiology of Domestic water and sewage
- 3. Microbiology of milk and milk products
- 4. Industrial microbiology

#### UNIT-V (MEDICAL MICROBIOLOGY)

- 1. Brief introduction to pathogenic micro-organisurs, Rickettsia, Spirochaetes and Bacteria.
- 2. Brief account of life-history and pathogenicity of the following pathogens with reference to man; Prophylaxis and treatment -
  - (a) Pathogenic Protozoans Entamoeba, Trypanosoma, and Giardia
  - (b) Pathogenic helminths Schistosoma
  - (c) Nematode Pathogenic parasites of man
- 3. Vector insects

#### PAPER-II

#### (Paper Code-0918)

#### (GENETIC'S, CELL PHYSIOLOGY, BIOCHEMISTRY, BIOTECHNOLOGY AND BIOTECHNIQUES)

Note: Ateempting one question from each unit will be compulsory, 100% choice be given.

#### UNIT-I (GENETIC'S)

- 1. Linkage and Linkage maps
- 2. Varieties of gene expression Multiple alleles ; lithogenesis ; Pleiotropic genes; gene interaction ; epistasis.
- 3. Sexchromosome systems, and sex-linkage.
- 4. Mutation and chromosomal alterations ; meiotic consequences.
- 5 Human genetics chromosomal and single gene disorders (somatic cell genetics)

#### UNIT-II (CELL PHYSIOLOGY)

- 1. General idea about pH and Buffer.
- 2. Transport across membrane cell membrane; Mitochondria and Endoplasmic reticulum.
- 3. Active transport and its mechanism; Active transport in Mitochondria and Endoplasmic reticulum.
- 4. Hydrolytic enzymes Their chemical nature, Activation and specificity.

#### UNIT-III (BIOCHEMISTRY)

- 1. Amino acids and Peptides Basic structure and biological function.
- 2. Carbohydrate and its metabolism Glycogenesis; Gluconeogenesis; glycolysis, Glycogenolysis; Cosi-cycle.
- 3. Lipid metabolism Oxidation of glycerol; oxidation of fatty acid.
- 4. Protein metabolism Deamination, Transamination, Transmethylation; Biosynthesis of Protein;

#### UNIT-IV (BIOTECHNOLOGY)

- 1. Biotechnology Scope and importance.
- 2. Recombinant DNA and Gene cloning.
- 3. Cloned genes and other tools of biotechnology.
- 4. Applications of biotechnology in (i) Pharmaceutical industry, and (ii) Food processing industry.

#### UNIT-V (BIOTECHNIQUE)

Principles and techniques about the following

- 1. pH meter
- 2. Colorimeter
- 3. Microscopy-Light microscopes, Phase contrast and Electron microscopes.
- 4. Centrifugation
- 5. Separation of biomolecules by chromatography, and Electrophoresis
- 6 Histrochemical methods for determination of Protein, Lipids, and carbohydrate

#### PRACTICAL WORK

The Practical work in general shall be based on syllabus prescribed in theory. The candidates will be required to show knowledge of the following :

- 1. Estimation of population density, Percentage frequency, Relative density.
- 2 Analysis of Producers and consumers in grassland.
- 3. Detection of gram-negative and gram-positive bacteria.
- 4. Blood group detection (A,B, AB & O).
- 6. R.B.C., W.B.C. count.
- 6. Blood coagulation time.
- 7. Preparation of Hematin crystals from blood of rat.
- 8. Observation of Drosophila, wild and mutant.
- 9. Chromatography-Paper or gel.
- 10. Colorimetric estimation of hemoglobin.
- 11. Mitosis in anian root tip.
- 12. Biochemical detection of Carbohydrate, Protein and Lipid.
- 13. Study of Permanent slides of Parasites, based on theory paper.
- 14. Working Principles of pH meter, Colorimeter, centrifuge and microscopes.

#### SCHEDULE FOR PRACTICAL EXAMINATION

Duration	: 4 Hrs.	Max	Marks	:	50
1.	Haematological Experiment :	08	marks		
	(R.B.Cs./W.B.Cs. Counting/Blood group detection)				
2.	Ecological Experiment :	06	marks		
	(Estimation of Population Density/Frequency/relative Density)				
3.	Staining of Gram +ve and Gram -ve Bacteria/cytological	05	marks		
	experiment : Mitosis in anian root tip				
4.	Biochemical Experiment :	06	marks		
	(biochemical detection of carbohydrate/protein lipid)				
5.	Chromatography	05	marks		
6.	Spotting :	10	marks		
	Study of permanent slides of Parasites : 3				
	Comments on working Principles of pH meter /				
	Calorimeter / centrifuge and Microscope :				
7.	Viva Voce	05	marks		
8.	Sessional :	05	marks		

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(31)

# MICRO-BIOLOGY SCHEME OF PRACTICAL

Duration	: 4 Hrs.	Max Marks :	; 50
1.	Characterization and Identification of micro-organism		
	from any given source	15	
2.	Biochemical identification of some biodegraded organic		
	molecules	10	
3.	Spots (1 to 5)	10	
4.	Viva voce	05	
5.	Sessional	10	
		Total - 50	

#### (PRACTICAL SYLLABUS)

#### MOLECULAR BIOLOGY AND GENETIC ENGINEERING

Characterization of genetic markers of known bacterial strains.

Phage growth curve.

Isolation of DNA from bacteria.

Isolation of plasmid DNA and restriction analysis.

Simple cloning using plasmid DNA as vector and transformation of competent E. coli cells.

Electrophoretic analysis of proteins.

Isolation of Bacteria from air and soil (crop fields)

Isolation of Fungi from air and soil

Study of rhizospheric & Phyllospheric microbes of some economically important plants

Biodegradation study of some organic molecules

microbial assessment of potable water

Analysis of sewage waste

Analysis of Garbages (soild wastes)

#### **REFERENCE** :

Philipp Gorhardt, manual of Methods for general Bacteriology. ASM. 536pp.

#### PAPER-I (Paper Code-0923)

#### MOLECULAR BIOLOGY AND GENETIC ENGINEERING M.M.50

- **UNIT-I** History of molecular biology, model systems, concepts of molecular biology, Early history of genetic engineering, genetic engineering concepts, ethical issue.
- **UNTT-II** Mutation; spontaneous and induced, base pair change, fram shift, deletion, inversion, random duplication, insertion, useful phenotypes (auxotrophs, conditional lethal, resistance). Revertion vs suppression, Ame's test.
- **UNTI-III** Function of macromolecules; early observation on the mechanism of heredity, DNA as genetic material; basic mechanism of replication, enzymes involved in replication, Enzymes involved in transcription translation, genetic code, regulation of gene expression-transcription, translation and control of gene expression in microbes.
- **UNIT-IV** DNA repair and restriction, types of repair systems, restriction modification systems, types of restriction enzymes, properties and uses, methylation.

Biology of plasmids. Bacteriophages, lytic vs lysosogenic phages, single standard DNA phages, M 13, restriction modification systems, restriction enzymes.

**UNIT-V** Plasmid and phage vectors, restriction and ligation of vector and passenger DNA, transformation of host cells, selection vs. screening of recombinant colonies, analysis of recombinant clones, DNA sequencing, protein separation and identification methods.

#### TEXT BOOKS :

- 1. Essentials of Molecular Biology by GM Malacinski.
- 2. Genes IX by Benjamin Lewin
- 3. Molecular Biology by TA Brown.

#### PAPER - II (Paper Code-0924)

#### ENVIRONMENTAL AND MEDICAL MICROBIOLOGY

#### M.M.50

- **UNIT-I** Aerobiology; definition, droplet nuclei, aerosol assessment of air quality, some important air borne diseases caused by bacteria (Diptheria, Peneumonia, Meningitis), virus (Influenza, Chicken pox, Measels) and fungi (mycosis); their symptoms and preventive measures.
- **UNIT-II** Soil microbiology : Physical and chemical characteristics and micro flora of various soil types, rhizosphere, phyllosphere. Brief account of microbial interactions: symbiosis, mutualism, commensalism, competition, amensalism, synergism, parasitism, and predation.

Biofertilizers - biological nitrogen fixation, nitroginase enzyme, nif genes, symbiotic nitrogen fixation, and non-symbiotic nitrogen fixation (Azotobacter, Azospirillum), VAM-ecto-endo-ectendomycorrhizae.

- UNIT-III Aquaticd microbiology; ecosystem, fresh water (ponds, lakes, stream) and marine, Water zonation : upwelling, entrophication. Potability of water - microbial assessment of water quality. Brief account of water borne diseases (Typhoid, Dysentery, Cholera, Hepatitis) and preventive measures.
- **UNIT-IV** Food spoilage and food borne infections. A brief mention about biodegradation, xenobiotics, bioaccumulation, biopestisides and deterioration. General concept of industrial microbiology and their applications.
- UNIT-V Waste Treatment : types of wastes, characterization of solid and liquid waste, waste treatment solid saccharification, gasification, composting. Liquid waste treatment - aerobic, anaerobic primary, secondary and tertiary methods. Useful byproducts, mushroom, fuel, fertilizer, Biodegradation of industrial waste.

#### **REFERENCES** :

- 1. Food Microbiology by WC Frazier and D Westhoff.
- 2. Agricultural Microbiology by Bhagyaraj and Rangaswamy.
- 3. Bioremediation by KH Baker and DS Herson.
- 4. Scott's Diagnostic Microbiology by EJ Baron.

# PRACTICAL FOR B.SC. PART III (MICROBIOLOGY)

Characterization of genetic markers of known bacterial strain Isolation of DNA from bacteria Isolation of plasmid DNA Simple cloning using plasmid DNA as vector and transformation of competent E. coli Electrophoresis of protein / DNA. Isolation of microorginsms from air, soil and water. Isolation of pathogenic microorganisms. Study of rhizospheric and phyllowpheric microbes from economically important plants. Biodegradation of some organic molecules. Microbial assessment of potable water. Analysis of sewage waste, solid waste (garbage). Isolation of aquatic fungi (zoosporic) by baiting technique. Isolation of keratinophilic fungi soil by baiting technique Demonstration of beacterial antagonism. Microscopic observation of root colonization by VAM fungi.

#### SCHEME FOR PRACTICAL EXAMINATION

#### Time : 4 hors

#### M.M. : 50

	Total	150
5.	Sessional	10
4	Viva-Voce	05
3.	Spotting (1-5)	10
	Microbial assessment of potable water/BOD/COD	10
2	Biochemical identification of some biodegraded organic molecules/	
	Isolation of plasmid DNA/Genomic DNA	15
1,	Characterization and identification of microorganism from given source/	

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# विषय-भू-विज्ञान

# सैद्धांतिक प्रश्न पत्र- प्रथम

पूर्णांक-50

# ( पेपर कोड-0905 )

- इकाई-1 1. खनिज उपलब्धता के नियामक तथ्य । वैश्विक खनिज नियम एवं संसाधन ।
  - दिक्काल में खनिज निक्षेपों का वितरण, पारम्परिक एवं गैर पारम्परिक ऊर्जा संसाधन : सूर्य-आतप, जल, वायु, उष्ण झरने, समुद्र तरंगे ।
  - 3. अयस्क निर्माणकारी खनिज : धात्विक एवं अधात्विक । अयस्क निर्माण की मैग्मीय सांद्रगण विधि ।
  - 4. उष्ण जलीय-प्रक्रियायें, स्कार्न ।
  - उपक्षय उत्पाद एवं अवशिष्ट निक्षेप । आक्सीकरण एवं सल्फाइड समृद्धि प्रक्रम ।
- इकाई-2 1. अयस्क निर्माण की अवसादी प्रक्रिया।
  - 2. प्रतिस्थापन एवं जीवाश्विक अवक्षेपण, कोलायडल निक्षेपण । लवणीजल का वाष्पोत्सर्जन ।
  - 3. अयस्क निर्माण की कायान्तरणी प्रक्रिया ।
  - भू–वैज्ञानिक कालों में वैश्विक विर्तनिकी एवं धानुनिर्मिती ।
  - 5. भू-वैज्ञानिक वितरण, खनिजकीय विशेषता तथा भारत में निम्न धातु निक्षेपों का वितरण लौह-मैगर्नीज-क्रोमियम

**इकाई-3** 1. भू-वैज्ञानिक वितरण-खनिजकीय विशेषता एवं भारत में निम्न धातु निक्षेपों का वितरण : ताम्र-सीसा-जस्ता।

- 2. भू-वैज्ञानिक वितरण- खनिजकीय विशेषता एवं भारत में निम्न धातु निक्षेपों का वितरण: सोना-अल्युमिनियम।
- भू-वैज्ञानिक वितरण- खनिजकीय विशेषता एवं भारत में निम्न अधातु निक्षेपों का वितरण : तापसह एवं उर्वरक खनिज ।
- भू-वैज्ञानिक वितरण- खनिजकीय विशेषता एवं भारत में निम्न अधातु निक्षेपों का वितरण : सीमेंट एवं केमिकल उद्योग में प्रयुक्त खनिज एवं वास्तुप्रास्तर ।
- 5. भू-वैज्ञानिक वितरण- खनिजकीय विशेषता एवं भारत में निम्न अधातु निक्षेपों का वितरण : रत्न ।
- इकाई-4 1. धातु सांद्रण की प्रमुख विधियाँ : ताम्र एवं मैग्नींज ।
  - 2. खनिज दोहन के पर्यावरणीय प्रभाव ।
  - 3. कोयला निक्षेपों की उत्पत्ति, परिभाषा एवं संस्तर विज्ञान ।
  - 4. कोल-शैलिकी के मूलभूत तथ्य ।पीट, लिग्नाइट, विटूमिनस, एंथ्रासाइट ।
  - 5. भारतीय कोयला निक्षेप : विशेष संदर्भ में छत्तीसगढ़ ।
- **इकाई-5** 1. प्राकृतिक हाइड्रोकार्बन की उत्पत्ति, स्थानांतरण एवं स्थानबद्धता, स्त्रोत एवं संचयकारी
  - 2. आयलट्रेप के प्रकार-संरचनात्मक, स्तरविज्ञानी एवं मिश्रित ।
  - 3. भारत के तटीय एवं अपतटीय पेट्रोलियम निक्षेप ।
  - 4. रेडियोधर्मी खनिज : खनिजकीय, भू-रसायन, पूर्वेक्षण तकनीक ।
  - 5. भारत वर्ष में रेडियोधर्मी खनिज का वितरण ।

# विषय-भू-विज्ञान

# सैद्धांतिक प्रश्न पत्र-द्वितीय

# ( पेपर कोड-0906 )

# ( प्राकृतिक पर्यावरण, दूर-संवेदन, भू-जल एवं खनिज-अन्वेषण )

इकाई-1 1. पर्यावरण भू-विज्ञान की अवधारणायें एवं परिभाषा ।

पूर्णांक-50
- मुदानिर्माण-मृदा प्रकार । 2.
- प्राकृतिक पर्यावरण पर मानव का पर्यावरण । 4.
- नदी मार्ग का अंतरण : मार्ग अंतरण का मृदा अपरदन पर प्रभाव : भूस्खलन एवं बाढ़ । 5.

- वृहत्त बांध, जलाशय, सुरंगें आदि के निर्माण में स्थल चयन एवं पर्यावरणीय प्रभावों का अध्ययन । इकाई-2 1.
  - हवाई-छायाचित्रों एवं उपग्रह इमेजियरी का प्रारंभिक अध्ययन । 2.
  - शहरी विकास एवं वृहदुअभियांत्रिकी संरचनाओं की आयोजना में दूर-संवेदन तकनीकों का अनुप्रयोग । 3.

पृथ्वी की प्राकृतिक-पारिस्थितिकी तंत्र की अवधारणायें : उनकी अंतर्क्रियाएं एवं अर्न्तसम्बन्ध ।

- फोटो जियोलॉजिकल मानचित्रों का निर्माण । 4.
- 5. जल चक्र ।

# इकाई-3 भूजलसंचयी शैल

3.

- शैल एवं उनका वर्गीकरण 1.
- जलमृतशैलों का वर्गीकरण : डार्सि का नियम एवं उसकी उपयुक्ता । 2.
- भारत का भूजल-प्रदेश । 3.
- जलग्रहण प्रबंधन की अवधारणायें 4.
- सतही एवं अधो सतही निष्कर्षण विधियाँ । 5.
- आर्थिक खनिजों के लिये पूर्वेक्षण विधियाँ : ड्रीलिंग, प्रतिनयन एवं आमापन इकाई-4 1.
  - खनिज पूर्वेक्षण की गुरूत्वी, विद्युतीय एवं चुम्बकीय विधियाँ । 2.
  - पूर्वेक्षण की हवाई एवं भूकम्पीय विधियाँ । 3.
  - पूर्वेक्षण की भू-पादपीय विधियाँ । 4.
  - पूर्वेक्षण की भू–रासायनिक विधियाँ । 5.
- बोरहोललागिंग एवं विचलन सांख्यिकी । इकाई-5 1.
  - खनिज खपत का परिवर्तनशील स्वरूप । 2.
  - 3. राष्टीय खनिज नीति ।
  - खनिज-कन्शेसन-नियम । 4.
  - समुद्री खनिज संसाधन एवं तत्संबंधित नियम । 5.

# प्रायोगिक प्रश्न पत्र

अधिकतम अंक-50 क्षेत्रीय अध्ययन-15 अंक

# प्रयोगशाला कार्य-35 अंक

- अयस्क निर्माणकारी खनिजों के भौतिक एवं प्रकाशीय गुणों का अध्ययन । 1.
- भारत के मानचित्र में अयस्क निक्षेप एवं आर्थिक महत्व को खनिजों का वितरण । 2.
- कोयला एवं उसके विभिन्न प्रकारों के नमूनों का स्थूलदर्शी अध्ययन । 3.
- रेडियोधर्मी खनिज एवं उनके आतिथेय शैलों का स्थूलदर्शी अध्ययन । 4.
- खनिज निष्कर्षण से संबंधित प्रयोगशाला अभ्यास कार्य, निक्षेप आंकलन, टनेज फेक्टर आंकलन, ड्रिलिंग 5. आदि से संबंधित ।
- स्टिरियोस्कोप के द्वारा ऐरियल छाया चित्रों का अध्ययन एवं विवेचना । 6.
- उपग्रह इमेजियरी का अध्ययन एवं विवेचना । 7.

#### भू-वैज्ञानिक-क्षेत्रीय अध्ययन :

15 दिवसीय भू-वैज्ञानिक क्षेत्रीय अध्ययन कार्य, जिसमें संरचनात्मक दृष्टि से जटिल क्षेत्रों में भू-वैज्ञानिक मानचित्र एवं शैल नमूनों का संग्रहण तथा प्रयोगशाला कार्य एवं फील्ड रिपोर्ट का अनुलेखन ।

#### BOOK RECOMMENDED FOR PAPER-I

Evans, A.M. 1993. - Ore Geology and Indusrial Minerals Sawkins, F.J. 1984 - Metal Deposits in relation in plate Tecto. Springer. Stanton, R.L. 1972 - Ore Petrology. Mcgraw Hill Mookherjee A. 2000 - Ore Geniois - a helistic Approach Allied Publisher Chandra 2000 - Text book of coal (Indian context) Tara book Agency, Varanashi Selley, R.C.1998 - Elements of Petroleum Geology. Academic Press Torling D.H. 1981 - Economic Geology and Geofectericks Blackwell Melustry, H.E. 1962 - Mining Geology 2nd Ed., Asia Pub. House Arogya Swamy, RPN 1996 - Gourses in rining Geology IV Ed. Oxford IBH Dahl Kamp F.J. 1993 - Uranium Ore Deposits Springer BOOK RECOMMENDED FOR PAPER-II Valdiya K.S. 1987 Environmental Geology-Tata MacgrawHill Keller, E.A. 1978 - Environmental Geology-Bell & Hewell Subramanium V. 2001 - Textbook in Environmental Science, Narosa International Bell, F.G. 1999 - Geological Hazards, Routledge, London - Image Interpretation in Geology Drury, S.A. 1987 Siegal, B.S. and Gillespie A.R.1980- Remote Sensing in Geology, John Wiley Pandey, S.N. - Principles and Application of Photology. Wiley Eastern, New Delhi Todd. D.K. 1980 - Groundwater Hydrology, John Wiley Raghunath, N.M. 1982 - Ground Water, Wiley Eastern Karanth, K.R. 1987 - Groundwater Assessment Development and Management, - Tata Macgraw Hill Subramanium, V.2000 - Water, KingstonPubl. London Sharma P.V. 1986 - Geophysical Methods in Geology Mcgraw Hill Krynine, D.H. & Juddwr 1998 - Principles of Engineering G. CBS Edition

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#### STATISTICS

### PAPER-I

#### (Paper Code-0907)

### APPLIED STATISTICS

- **UNIT-I** Indian Applied Statistical System : Present official statistical system in India, Methods of collection of official statistics, their reliability and limitations, and the principal publications containing such statistics on the topics-population agriculture, industry, trade, price, labour and employment, transport and communications, banking and finance. (15L)
- **UNIT-II** Demographic Methods : Sources of demographic data census, register, adhoc survey, hospital records, demographic profiles of Indian census. Measurement of mortality and life tables- crude, death rates, infant mortality rates, death date by cause, standardized death rate, complete life table its main features, mortality rate and probability of dying, use of survival tables. Measurement of fertility crude birth rate, general fertility rate, total fertility rate, gross reproduction rate, net reproduction rate. (25L)
- **UNIT-III** Economic Statistics : Index number its definition, applications of index numbers. price relatives and quantity or volume relatives, link and chain relatives, problems involved in computation of index numbers, use of averages, simple aggregative and weighted average methods, Laspeyre's, Paasche's and Fisher's index numbers, time and factor reversal tests of index numbers. Consumer Price Index. (20L)
- **UNIT-IV** Static laws of demand and supply, price elasticity of demand, analysis of income and allied size distribution Pareto distribution, graphical test, fitting of Pareto's law, log normal distribution and its properties, Lorenz curve and estimation of elasticity from time series data. Gini's coefficient.
- **UNIT-V** Time Series Analysis : Economic time series, its different components, Illustrations, additive and multiplicative models, determination of trend, growth curves, analysis of seasonal fluctuations construction of seasonal indices. (15L)

#### **REFERENCES** :

- 1. Croxton F.E. and Cowden D.J. (1969) : Applied General Statistics, Prentice Hall of India.
- 2 Goon, A.M., Gupta, M.K., Das gupta, B (1986) : Fundamentals of statistics, vol.-II, World Press, Calcutta.
- 3. Guide to Current Indian Offical Statistics : Central Statistical Organization, Govt. of India, New Delhi.
- 4. Saluja M.P. () Indian Official statistical Systems, Statistical Publishing Society, Calcutta.
- 5. Srivastava, O.S. (1983) : A textbook of Demography, Vikas Publishing.

#### ADDITIONAL REFERENCES :

- 1. Gupta and Mukhopadhyay P.P. ( ) Aplied Statistics, Central Book Agency.
- 2. Pressat R. (1978) : Statistical Demography, Methuen and Co. Ltd.

#### PAPER-II

#### (Paper Code-0908)

### STATISTICAL QUALITY CONTROL AND COMPUTATIONAL TECHNIQUES

UNIT-I Importance of statistical methods in industrial research and practice, specification of items and lot qualities corresponding to visual gauging, count and measurements, types of inspection, determination of tolerance limits. General theory of control charts, causes of variation in quality, control limits, sub-grouping, summary of out-ot control criteria, charts for attributes, np chart, p - chart, c- chart, u- chart, Charts for variables-X- and R charts, design of X and R charts versus p-charts, process capability studies.

(30L)

- UNIT-II Principle of acceptance sampling- problem of lot acceptance, stipulation of good and bad lots, producer's and consumers risks, single and double sampling plans, their OC functions, concepts of AQL, LITPD, AOQL, average amount of inspection and ASN function, rectifying inspection plans, Sampling inspection plans, Indian Standards Tables Part-I (including applications), IS 2500 Part I. (15L)
- **UNTI-III** Computational techniques : Difference tables and methods of inferpolation, Newton's and Lagrange's methods of interpolation, Divided differences, numerical differentiation and integration, Trapezoidal rule, Simpson's one-third formula, iterative solution of non-linear equations. (15L)
- **UNIT-IV** Linear Programming : Elementary theory of convex sets, definition of general linear programming problems (LPP), formulation problems of LPP, examples of LPP, Problems occurring in various fields, graphical and Simplex method of solving an LPP, artificial variables, duality of LPP. Transportation Problem (non-degenerate and balanced cases only), Assignment Problem. (30L)

UNIT-V Four short notes, one from each unit. Student have to answer any two.

#### **REFERENCES** :

- 1. Brownless K.A. (1960) : Statistical theory and Methodology in Science and Engineering. John Wiley and Sons.
- 2. Grant E.L. (1964) : Statistical Quality Control, McGraw Hill.
- 3. Duncan A.J. (1974) : Quality Control and Industrial Statistics, Traporewala and Sons.
- 4. Gass S.I. (1975) : Linear Programming Methods and Applications, McGraw Hill.
- 5. Rajaraman, V. (1981) : Computer Oriented Numerical Methods, Prentice Hall.
- 6 Sastry S.S. (1987) : Introductory Methods of Numerical Analysis, Prentice Hall.
- 7. Taha H.A. (1989) : Operations Research : An Introduction, Macmillan Publishing Company.

#### ADDITIONAL REFERENCES :

- 1. Bowker H.A. and Liberman G.T. (1962) : Engineering Statistics, Prentice Hall.
- 2. Cowden D.J. (1960) : Statistical Methods in Quality Control, Asia Publishing Society.
- 3. Garvin W.W. (1960) : Introduction to Linear Programming, McGraw Hill.
- 4. Mahajan M. (2001) : Statistical Quality Control, Dhanpat Rai & Co. (P) Ltd.
- 5. Rao S.S. (1984) : Optimization Theory and Applications, Wiley Eastern.

B.Sc.-III

6. Krishnamurthy E.V. and Sen S.K. (1976) : Computer Based Numerical Algorithms, Affiliated East-West Press.

#### PRACTICAL

- 1. Computing measures of mortality & fertility, Construction of life tables and examples involving use of life tables, Graduation of mortality rates by Compertz curve, fitting of a logistic curve.
- 2. Construction of Index Numbers by Laspeyre's, Paasche's, Fisher's method.
- 3. Determination of trend in a time series, construction of seasonal indices.
- 4. Fitting of Pareto curve to income data, Lorenz curve of concentration, Estimation of price elasticity of demand form time series data.
- 5. Drawing of X-R, np, p and c- charts. Drawing of OC curve for single and double sampling plans for attributes, AQQ and ATI curves.
- 6. Construction of difference tables, use of Newton's Lagrange's methods of interpolation and divided difference formulae, numerical evaluation of integrals using Trapezoidal and Simpson's one-third formulae, solution of non-linear equation by Newton-Raphson iterative method.
- 7. Formulation of LPP's and their duals. Solving LPPs by graphical and simplex methods, transportation and assignment problems.

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### DEFENCE STUDIES PAPER-I

### PROBLEMS OF WAR AND PEACE (Paper Code-0921)

- **Aim :** The objective of this paper is to acquaint the students about the multidimensional problems of war and peace and humanitarian laws.
- Note: Question will be set from each unit, there will be only internal choice.

### Unit-I U.N.O. AND WORLD PEACE

- 1. Organs and its role.
- 2. Main specialized agencies of U.N.O.
- 3. Role of U.N.O. in world peace.
- 4. Peace keeping forces of the U.N.O.
- 5. Veto power and Security Council.

### Unit-II WAR AND PEACE

- 1. Sattlement of International Disputes.
- 2. Diplomatic agents and Consuls.
- 3. War Crimes.
- 4. Neutrality.
- 5. Intervention.

### Unit-III HUMANITARIAN LAW

- 1. Basic concepts and development of Humanitarian law.
- 2. UN General Assembly declaration of human rights on Dec. 10, 1948.
- 3. Protection of Victims and defenceless in armed conflict, POWs, wounded and civilians in Armed Forces.
- 4. Central Human Right Commission : Organisation and Function.
- 5. State Human Right Commission : Organisation and Function.

### Unit-IV REFUGEE LAW

- 1. Meaning, Concept and causes of Refugee.
- 2. Refugee and IDPs.
- 3. Refugee law in India.
- 4. Refugee Problem in South Asia.
- 5. Role of International Committee of Red Cross and UNO in Refugee Problems.

### Unit-V LAWS OF WAR

- 1. Law of Land war.
- 2. Law of Sea war.
- 3. Law of Air war.
- 4. Space law.
- 5. The International Court of Justice.

#### SELECTED READINGS :

Readings in the Economics of War. 1. Maunce clark, J :

:

- 2. International Security
- Modern political Science series. : : Word order.
- 3. Rajani Kothari 4. Openhem, I
- Use of Forces by states and International law.

#### PAPER - II

### MODERN WARFARE

#### (Paper Code-922)

- To enable students to appreciate the impact of Political, economic and technological Aim : developments on the patterns of conflicts between nations.
- Note : Question will be set from each unit, there will be only internal choice.
- UNIT-I Development of Nuclear weapons. 1
  - Effects of Nuclear Explosion. 2,
  - 3. Spread of Nuclear Weapons.
  - 4. Missile and their characteristics.
  - 5. Type of Missiles.
- UNIT-II 1. Trends in Science and Technology and their impact on war.
  - 2. Role of Research and Development.
  - Development of Weapons and their impat on tactics 3.
  - Command, Control, Communication and Intelligence (C<sup>3</sup>I) in Modern Warfare. 4
  - Elements of National Power. 5
- UNIT-III 1. Military Satellites.
  - 2. Explosive Bombs.
  - 3. War Gases.
  - Micro Organs : as a weapons. 4
  - 5. Smart Weapons.
- UNIT-IV 1. Rocket Technology and India.
  - Missile Technology and India. 2
  - Nuclear Technology and India. 3.
  - Atomic Minerals and India. 4.
  - Space Technology and India. 5
- UNIT-V 1. New word order - Political, Social and Economical.
  - 2 Alliance and Regional co-operation.
  - 3. Mobilisation of resources for war.
  - 4 War time economics.
  - 5. New trends.

#### SELECTED READINGS :

1.	Halailan Morton	:	Coutemporary Military strategy
2.	Brodue, Y.	:	Strategy in the Missile Age.
3.	Markabi, Y.	:	Nuclear war and Nuclear peace
4.	Osanka. F.M.	:	Modern Guerilla warfare
5.	Gerald. J.	:	Defence Psychology
6.	Know Kalus	:	Science and Defence
7.	Pandey Girishkant	:	Yudh mein vigyan aven Tachniki.

### PRACTICALS

#### 50 marks

There shall be practical examination of 3.5 hours duration carrying. The division of marks shall be as follows :

(1)	Plain Table Survey		:	15 Marks.
(2)	Experimental Military Psycholo	рду	:	15 Marks.
(3)	Group Descussion & Lectring	:		05 Marks.
(4)	Viva-Voce	:		05 Marks
(5)	Sessional work & Record		:	10 Marks.

### Section - A

Plain table Survey by inter section methods. (Atleast ten exercises in a session).

#### Section - B

Military - Psychology Experiment :

- (1) Muller-Layer-Illusion test.
- (2) Koh's Block Design Test.
- (3) Allexander Pass Along Test.

### Section - C

Group Discussion and Lectures based on current topic on any international  $\&\ {\tt national}$  Problems.

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#### INDUSTRIAL CHEMISTRY

### PAPER - I

#### (Paper Code-0925)

### CHEMICAL PROCESS ECONOMICS M.M. 34

UNIT-I	1.	Factors involved in project cost estimation, methods employed for the est	imation
		of capital investment.	06L
	2.	Capital formation, elements of cost accounting.	05L
UNIT-II	1.	Interest & investment cost, time value of money equivalence.	03L
	2.	Depreciation, method of determining depreciation, taxes.	04L
	3.	Some aspects of marketing, pricing policy.	04L
UNIT-III	1.	Profitability criteria, economics of selecting alternatives.	031
	2.	Variation of costs with capacity, Break-even point, optimum batch	sizes,
		Production, schedulling etc.	05L
	З.	Sampling of Bulk materials, techniques of sampling of solids, liqu	ids and
		gasses.	03L
	4.	Collection & Processing data.	02L
	5.	Particle size determination.	02L
	6.	Rheological properties of liquids, plastics and their analysis.	03L

#### INDUSTRIAL ORGANIZATION

UNIT-IV	NIT-IV 1. Concept of scientific management in industry.					
	2.	Functions of management, decision making, planning, organising. directi	ng &			
		antrol.	09L			
	З.	Location of industry.	03L			
UNIT-V	1.	Materials management.	05L			
	2.	Inventory control.	04L			
	3.	Management of human resources-selection, incentives, welfare & safety.	05L			
BOOKS	:					

- 1. Economics of Chemical industry, Hempel, E.H.
- 2. Plant Design & Economics for Chemical Engineers, Peter Time Rhaus, McGraw Hill.
- 3. I.C.M.A. Booklets-9 & 10.
- 4. Industrial Organization & Management, Bethel, L.L.
- 5. Industrial Organization & Management, Tarachand, Vol. I & II.
- 6. Book on Management, O.P. Khandelwal.
- 7. Rheology theory & application, Vol. 5, Elrich, R.F.

#### PAPER - II

#### (Paper Code-0926)

#### PHARMACEUTICALS M.M. 33

UNIT-I 1. Historical Background & development of pharmaceutical industry in India in brief. 02L
 2 Pharmacopoeias - Development of Indian pharmacopoeia & introduction ot B.P., U.S.P., E.P., N.F. & other Important Pharmacopoeias. 02L

- 3. Introduction to various types of formulations & roots of administration. 02L
- 4. Aseptic conditions, need for sterilisation, various methods of sterilisation. 02L
- UNIT-II 1. Various types of pharmaceutical excipients their chemistry, process of manufacture & quality, specifications Glidants, lubricants, diluants, preservatives, antioxidants, emulsifying agents, coating agents, binders, coloring agents, flavouring agents geletin & other additives, sorbotol, mannitol, viscosity builders etc.
  - 2 Surgical dressing, sutures, ligatures with respect to the process, equipments used for manufacture, method of sterillization and quality control. 05L
- UNIT-III 1. Pharmaceutical packaging introduction, package selection, packaging materials, ancillary materials, packaging machinery, quality control of packaging materials. 05L
  - 2 F.D.A., Important schedules & some legal aspects of drugs. 03L
  - Pharmceutical quality control (other than the analytical methods covered under core-subject) - sterility testing, pyrogenic testing, glass testing, bulk density of powders, etc.
- **UNIT-IV** 1. Evaluation of crude drugs-Moisture content, extractive value, volatile oil content, foreign organic matter, quantitative microscopic exercises, including starch, leaf content, (palisade ratio, stomatal number & index vein, islet number & vein termination number), crude fiber content, introduction to chromatographic method of dentification of crude drugs.
  - Chromatography, Paper chromatography, TLC, HPLC, GLC.
     Ion chromatography.
     01L

#### INSTRUMENTATION

UNIT-V	1.	UV-Visible spectroscopy.	03L
	2.	IR-Spectroscopy non-dispersive IR.	03L
	З.	NMR Spectroscopy.	03L
	4	Atomic Absorption & Flame photometry.	03L
	5.	Neutron diffraction.	01L
	6.	X-Ray Fluorescence.	01L
	7.	Ion Selective Electrodes.	01L
DOOKG			

#### BOOKS :

- 1. Instumental methods of analysis, Willard, Merit, Dean.
- 2. Introduction to instrumental methods of analysis, Braun, R.D., McGraw Hill.
- 3. Analytical chemistry, J.B. Dick, McGraw Hill.
- 4. Quantitative Inorganic analysis, A. Vogel.
- 5. Instrumental methods of Analysis, Skoog & West.
- 6. Instrumental Methods of Analysis, B.K. Sharma.

#### PAPER -III

### (Paper Code-0927)

### DRUGS

#### M.M. 33

**UNIT-I** 1. Phyto-chemicals-Introduction to plant classification & crude drugs, cultivation, collection, preparations for the market & storage of medicinal plants.

- 2 Classification of various types of drugs with examples.
- 3. Raw meterials, process of manufacture, effluent handling, etc. of the following bulk drugs :-
  - Sulpha drugs-sulphaguandine, sulphamethoxazole.
- UNIT-II 1. Chemical constitution of plants including carbohydrates, amino acids, proteins, fats, waxes, volatile oils, terpenoids, steroids, saponins flavonoids, tanins, glycosides, alkaloids.
  - 2 Various isolation procedures for active ingredients with examples for alkaloids, reserpine one for steroids sapogenin, diogran.
- UNIT-III 1. Antimicrobial :- Chloramphenicol, Furazolidne, Mercurochrome, Isoniazid, Na-PAS.
  - 2. Analgesic-AntiInflammatory :- Salicylic acid and its derivatives, Ibuprofen, Mefenamic acid.
  - 3. Steroidal Harmones :- Progesterone, Testosterone, Methyl testosterne.
- UNIT-IV 1. Vitamins :- Vit.-A, Vit.-B6, Vit.-C.
  - 2. Barbiturates :- Pentobarbital.
  - 3. Blockers :- Propranolol, Atenolol.
  - 4. Cardiovascular Agent :- Methyl dopa.
  - 5. Antihistamins :- Chloropheneramine Maleate.
- **UNIT-V** 1. Products based of fermentation processes :- Brief idea of micro-organisma, their structure, growth & usefulness. Enzyme systems useful for transformation, microbial products.
  - 2 General principles of fermentation processes & product processing.
  - 3. Manufacture of antibiotics Pencillin-G & semi synthetic pencillines, Rifamycin, Vitamin-B12.
  - 4. Bio-transformation process for prednisolone, 11-hydroxylation in steroids.
  - 5. Enzyme catalysed transformation, manufacture of ephidrine.

### BOOKS :-

- 1. Practical Pharmacognosy, T.B. Wllis.
- 2. Practical Pharmacognosy, T.N. Vasudevan.
- 3. Modern Pharmacognosy, Remstad, McGraw Hill.
- 4. Indian Pharmacopoea, 1985.
- 5. British Pharmacopoea, 1990.
- 6. Hand Book of Drugs & Cosmetic Act, Mehrotra.
- 7. Pharmaceutical excipients.
- 8 Pharmaceutical Dosage forms.
- 9. Principles of Medicinal Chemistry, W.O. Foye, Lea & Febigen, Publication Phidelphia.
- 10. Text Book of Organic Medicinal & Pharmaceutical Chemistry, Willson, Gisvold, Derge; Lippinett-Toppan.
- 11. Essentials of Medicinal Chemistry, Korolkovas & Burkhatter, Wiely Interscience.

#### PRACTICAL

The Practical examination will be of 08 Hrs. Duration spread over two days carrying 50 Marks.

Two experiments have to be performed.

- Synthesis of common industrial compounds involving two step reactions. 4-Bromoaniline, 3-Nitroaniline, Sulphanilamide, 4-Amindeen zoic acid, 4-Nitroben zoic acid, dihaldbenzenes, Nitrohal obenzenes.
- 2 Industial analysis of common raw meterials as per industrial specification :- Phenol, Aniline, Formaldehyde, Hydrogen per Oxide, Acetone, Epoxide, Olefins, Oils etc.
- 3. Demonstration of various pharmaceutical packaging materials, quality control tests of some materials, -A1 Strips, Cartons, Glass bottles.
- 4. Limit tests for chlorine, heavy metals, arsenic, etc. of two representative bulk drugs.
- 5. Demonstration of various pharmaceutical products.
- 6. Active Ingradient analysis of few types of formulations representing different methodsof analysis-acidimetry, alkalimetry, non-aqueous.
- 7. Determination of sulphate ash, loss of drying & other tests of bulk drugs, complete I.P. monograph of three drugs representing variety of testing methods.
- 8. Evaluation of crude drugs-macroscopic examination-determination & identification of starch grannules, calcium oxalate.
- 9. Palisate ratio, stomatal index-determination & Identification of few drugs. The method for identification.
- 10. Microbiological testing-determination of mic of some aNtibacterial drugs by zone/cup plate method.

#### DISTRIBUTION OF MARKS :

1. Experiment No	. 1.	20
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- 2. Experiment No. 2. 10
- 3. Viva 05
- 4. Sessional 05
- 5. Project Work 10

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Total
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- - - - - -

50

#### COMPUTTER SCIENCE

### PAPER - I

#### (Paper Code-0909)

#### COMPUTER HARDWARE PART-C

**AIM :** The emphasis is on the design concepts & organisational details of the common PC, leaving the complicated Electronics of the system to the computer engineers.

#### Objective of the Course :

- 1. To introduce the overall organisation of the microcomputers and operating systems.
- 2 To introduce the interaction of common devices used with computers with operating softwares, excluding the Assembly languages, with special reference to DOS/WINDOWS.
- To introduce the working of hardware components, Micro-Processor and various chips used in micro-computers by operating system, without the use of electronic circuitry.
- 4. To introduce the use of operating systems architecture with IBM-PC & clones, excluding Assembly language, with forms an important part of hardwares.
- **N.B.**: Since the computer organisation study is very vast & complicated, so the study is restricted only to the description and understanding part, hence the paper-setter is requested to keep this important factor in mind.

### UNIT-1 : ORGANISATION OF Micro-Processor & MIRCO-COMPUTER :-

- 1. Introduction & organisation of Micro-Computer :
  - Basic Components of Micro-computer : Basic Block; Prom ram memory; Data memory; I/O Ports; Clock generator; Integration of functional blocks.
  - (b) Interconnecting Components in a Micro-computer : Necessary functional block; Bussed architecture for microcomputer; memory addressing; Addressing I/O ports; comparision of I/O mapped and memory mapped I/O.
  - Input Output Techniques : Non-CPU devices, Program & interrupt controlled I/O; Hardware controlled I/O or DMA.

### 2 An Introduction to the various as :

- (a) General understanding of different  $\mu$  P or CPU : Intel 8088, 286, 386, 486, 586 Pentium, P54C, MMX P55C; Motorola 6800 & 88100 series; CYRIX & AMD CPUs.
- (b) The Registers of CPU : (Give Example of P-8088) Register organisation of 8088, Scrach pad segment, pointer, Index and Flag, Registers.
- (c) Memory addressing modes of P-8088 : Segment offset; Data addressing modes; Addressing for branch instructions.
- (d) I/O Addressing with P-8088 : Memory mapped I/O & I/O mapped I/O.

### UNIT-2 : SYSTEM HARDWARE ORGANISATION OF COMPUTERS :

#### 1. Hardware Organisation of the Personal Computer :

- (a) Block diagram with various parts of PC.
- (b) The Mother Board of General P.C. : 8088 CPU; ROM & RAM; Keyboard

& its interface; System timer/counters; Hardware interrupt vectoring; DMA controller & channels; Interfacing to audio speaker; Bus slots & facture cards.

- (d) The Serial I/O ports, COM-1 & COM-2.
- (d) The parallel Port for Printer.
- (e) Expansion Slots for RAM.
- Disk Controllers : For floppy, Hard disk, CD-ROM & Cassets drives.

### 2. The Video Display of PCs :

- (a) Video Monitors; Monochrome and colour.
- (b) Video Display Adapters & Their Video Modes; Monochrome & colour graphics adapters.
- (c) Video Control Through ANSI-SYS.
- (d) Video Control Through ROM-BOIS : INT 10H.
- (e) Direct Video Control; Monochrom & colour graphics adapters.
- f Installing Customized Character Sets.

### UNIT-3 : ORGANISATION OF OPERTING SYSTEM WITH SYSTEM HARDWARE :

### 1. The ROM-BIOS Services :

- (a) Introduction to UNIX, ENIX, SUN, solaris, DOS & MAC with special reference to DOS & Windows, its ver., as DOS becomes more popular than others in PCs.
- (b) The ROM-BIOS Diskette Services, INT 13H.
- (c) The ROM-BIOS Serial Port Services, INT 14H.
- (d) The ROM-BIOS Keyboard Services, INT 16H.
- (e) The ROM-BIOS Printer Services, INT 17H.
- Miscellaneous Service Provided by the ROM-BIOS : INT 05H, INT 11H, INT 12H, INT 18H, INT 19H, INT 1AH.

### 2. The fundamental of Operating System viz. DOS/WINDOWS :

- (a) The loading of DOS & Its Basic Structure ; ROM bootstrap, IO.SYS, DOS.SYS & Command..COM.
- b) The Execution of the programs under DOS ; EXEC functions, program segment prefix; Features of COM & EXE program files.
- (c) Device Handling by Dos; FDD, HDD, CON, Keyboard, PRN, AUX, CLOCK and NUL devices; Block devices; Character devices; Driver installation sequence.
- (d) File Structures of DOS ;
- (e) The DOS Interrupts : INT 20H-2FH
- f) The DOS functions through INT 21H; Discuss only the understanding part of various other DOS function to handle hard & softwares.
- (9) Installation of windows : Important system files in windows.

### UNIT-4 : ORGANIZATION & HANDLING BY OPERATING SYSTEMS :

#### 1. Disk and Files under DOS :

(a) Logical Structure of a Disk : Organisation of disk for use; Boot record ; FAT

files; disk or root directory.

- b) File Organisation on a DOS disk : Logical volumes ; Sub directories; Volume lables.
- (c) Manipulating Files under DOS : File attributes ; date and time, file Access; FCB functions.
- 2. Memory Allocation, Program Loading and Execution :
  - Memory Management under DOS : EXEC loader; Memory Management & its functions; Modifying a Program's memory allocation.
  - (b) Loading and Executing Programs under DOS : The EXEC function ; Memory considerations; parameter blocks; calling & returning from EXEC.
  - (c) Loading the program overlays through EXEC.

### UNIT-5 : ORGANISATION OF HARDWARE BY OPERATING SYSTEM :

### 1. Interrupt Handling through DOS :

- (a) Types of interrupts.
- (b) Interrupt Vector Table in PC.
- (c) Interrupt Service Routines.
- (d) Special Interrupts in PC : Clock Interrupt; The -C or Break Interrupt ; DOS reserved interrupt INT 28H ; Patching memory resident routines.

### 2. Filters for DOS :

- (a) Filters in operating systems.
- (b) Redirection of I/O under DOS.
- (c) The Filters Supplied with DOS.
- (d) Writing Filters to run under DOS.

### 3. Handling of Various Versions of Windows O.S. :

- (a) Setup Installation
- (b) Trouble shooting
- (c) Networking features

#### Text Book :

- 1. Hardware and Software of Personal Computers.
  - By Sanjay K. Bose. (Wiley Eastern Ltd. New Delhi).

#### Supporting Text Books :

- 1. Digital System from Gates to Mircoprocessor.
  - By Sanjay K. Bose. (Wiley Eastern Ltd. New Delhi).
- 2. Computer Fundamentals : Architecture & Organisation.
  - By B. Ram.. (Wiley Eastern Ltd. New Delhi).

#### Reference Books :

- 1. IBM PC-XT and Clones : By Govinda Rajalu.
- 2. Microprocessor and interfacing : By Douglas Hall.
- 3. Insight the IBM-PC : Peter Norton.
- 4. Micriprocessor System : 8086/8088 family architecture, programming & design
  By Liu and Gibson.

#### PAPER - II

### (Paper Code-0910)

Atm : To introduce DBMS and RDBMS using Back-end tool and Front-end tool.

#### Object of the Course :

- 1. To introduce Data BAse Management System concepts.
- 2. To introduce the Relational Database Management System and Relational Database Design.
- 3. To introduce the RDBMS software and utility of query language.
- 4. To introduce basic concept of GUI Programming and database connectivity using Visual Basic.

#### UNIT-1 : CONCEPT OF D.B.M.S. AND DATA MODELS

- (a) Introduction to DBMS :- Purpose of Data base systems, views of data, Data Modeling Database Languages, Transaction management, Storage Management, Database Administrator and User, Database System Structure.
- (b) E-R Model : Basic concepts, Constraints, Keys, Mapping Constaint, E-R Diagram, Weak and Strong Entity sets, E-R Database Schema, Reduction of an E-R Schema to Table.

#### UNIT-2. : RELATIONAL DATABASE MANAGEMENT SYSTEM

- Relational Model : Structure of Relational Database, Relational Algebra, Domain Relational Calculus, Extended Relational- Algebra Operation, Modification of database, Views.
- (b) Relational Database Design : Pitfalls in Relational Database Desing, Decomposition Functional Dependencies, Normalization : 1NF, 2NF, BONF, 3NF, 4NF, 5NF.

#### UNIT-3 : INTRODUCTION TO RDBMS SOFTWARE - ORACLE

- (a) Introduction : Introduction to personal and Enterprises Oracle, Data Types, Commercial Query Language, SQL, SQL\*PLUS.
- (b) DDL and DML : Creating Table, Specifying Integrity Constraint, Modifying Existing Table, Dropping Table, Inserting Deleting and Updating Rows in as Table, Where Clause, Operators, ORDER BY, GROUP Function, SQL Function, JOIN, Set Operation, SQL Sub Queries. Views : What is Views, Create, Drop and Retrieving data from views.
- (c) Security : Management of Roles, Changing Passward, Granting Roles & Privilege, with drawing privileges.
- (d) PL/SQL : Block Structure in PL/SQL, Variable and constants, Running PL/SQL in the SQL\*PLUS, Data base Access with PL/SQL, Exception Handling, Record Data type in PL/SQL, Triggers in PL/SQL.

### UNIT-4 : G.U.I. PROGRAMMING

- (a) Introduction to Visual Basic : Event Driven Programming, IDE, Introduction to Object, Controlling Objects, Models and Events, Working with Forms, MDI Form Working with standard Controls.
- (b) Overview of Variables, Declaring, Scope, Arrays, User defined data types, Constants, Working with procedures : Function, Subroutine, and Property.

Working with Data, Time, Format, String, and Math's Function. Controlling Program Execution: Comparison and Logical Operators, If...Then statements, Select Case Statement, Looping Structures, Exiting a loop. Error Trapping and Debugging.

(c) File Organization : Saving data to file, Sequential and Random access file, the desing and coding.

#### UNIT-5 : V DATA BASE PROGRAMMING IN VB

- (a) Introduction :- Concept of DAO, RDO, ADO, input validation : field & form level validation, ADO object model : the ADO object Hierarchy, the connection object, the command object, record set object, parameter object, field object, record object, stream object, Error object, parameter object.
- Using Bound control to Present ADO data : Using the ADO data control, ADO data control properties, binding simple controls : Data list, data combo, Data Grid, Data Form Wizard : single form wizard, Grid form, master/Detail form. Programming the ADO data control : Refresh method, Event, Hierarchical flex Grid control.
- (c) Data Environment & Data Report : Creating connection, Using command object in the data Environment, Data Environment option and operation, Binding Form to the data Environment, ADD Events in the Data report, Print Preview, Print, Export, Data report in code : Data reports Events, Binding data reports Directly.

#### **REFERENCE BOOKS** :

1.	Data Base System Concept	:	By Hery F. Korth, Tata McGraw Hill
2.	Fundamental of Data Base	:	Nawathe & Elmasri (Pearson educations)
	System Concept		
3.	Oracle Complete Reference	:	By Oracle Press
4	Introduction to OOPS & VB	:	By V.K. Jain, Vikas Publishing House
5.	Database Programming VB 6	:	By B.P.B. Publication
PRA	CTICALS :		

### 1. Practicals on Oracle :

At least 20 practicals covering the SQL, PL/SQL, Triggers, Views.

### 2. Practicals on Visual Basic :

At least 20 pracricals on VB that covering basic and data controls components.

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#### INFORMATION TECHNOLOGIES

#### PAPER - I

#### (Paper Code-0928)

#### AMPLIFIERS AND OSCILLATORS

- **UNIT-I POWER AMPLIFIER** : Classification of power amplifiers, requirement of power amplifiers, single ended class A power amplifier, and its efficiency, transformer coupled power amplifier, power dissipation curve, harmonic dissipation curve, harmonic distortion in pushpull power amplifier, power and efficiency calculation for pushpull for pushpull power amplifier, Distortion in pushpull power amplifier, Advantages of pushpull power amplifier.
- UNIT-II FEEDBACK AMPLIFIERS AND OSCILLATORS : Feedback in amplifiers, types of feedback positive, and negative feedback. Derivation of input and output impedance in voltage and current series feedback. Advantages of negative feedback. Positive feedback. Berkhauson criteria for sustained oscillator. RF oscillators-Hartley oscillatot, Colpetts oscillators (Qualitative study) relaxation osillators, Multivibrators-Astable, Monostable.
- UNIT-III OPERATIONAL AMPLIFIER AND POWER CONTROL DEVICES : Differential amplifier, operational amplifier, Characteristics of an ideal OPAMP, definition of input bias current input offset current, current driff, impout offset, common mode rejection ratio, slew rate, universal biasing technique, Application of OP-Amp, as inverting, noninverting amplifiers, differentiation, Integratior, scal charger and voltage follower, Silicon controlled rectifier (SCR), Diac, Traic and UJT (Only qualitative study).
- UNIT-IV THE INTEL 8080/8085 MICROPROCESSOR : Introduction, the 8085 pin diagram and functions, The 8085 architecture, addressing modes, the 8080/8085 instruction set, the 8080/8085 data transfer instructions, the 8080/8085 arithmetic instructions, the 8080/8085 logical instructions the 8080/8085 stack, I/O and machine controlled instructions.
- UNIT-V PROGRAMMING THE MICROPROCESSOR : Machine and assembling languages simplified instruction set, Instruction set, arithmetic poeration, Instructions set logical operations, instruction set data transfer operations, instruction set branch operations, instructuon set-subroutine all and return operations, instruction set miscellaneous operations, writing a program, addressing modes, program branching, program looping using subroutines.

Programming the 8080/8085 microprocessor : Introduction straight-line programs looping programs, mathematical programs.

#### PAPER - II

#### (Paper Code-0929)

#### FUNDAMENTAL DATA STRUCTURE

UNIT-I Introduction to Data STructure : The concept of data structure, Abstract data structure, Analysis of Algorithm, The concept of list.

**Stacks and Queues :** Introduction to stack & primitive operation on stack, Stack as an abstract data type, Multiple Stack, Stacks application : infix, post fix, and Recursion, Introduction to queues, Primitive Operations on the Queues, Queue as an abstract data type, Circular Queue, Dequeue, Priority Queue.

- **UNIT-II** Linked List : Introduction to the linked list of stacks, The linked list of queues, Header nodes, Doubly linked list, Circular linked list, Stacks & Queues as a Circular linked list, Application of linked list.
- UNIT-III Trees: Basic Terminology, Binary Trees, Tree Representations as Array & Linked list, Binary tree representation, Traversal of binary trees : In order, Preorder & post order. Application of Binary tree, Threaded binary tree, B-Tree & Height balanced tree, representation of B<sup>+</sup> & B<sup>\*</sup> trees, Binary tree representation of trees, Counting binary trees, 2-3 Trees algorithm or manipulating 2-3 Trees.
- UNIT-IV Searching & Sorting : Sequential Searching, Binary search, Insertion sort, Selection sort, Quick sort, Bubble sort, Heap sort, Comparison of sorting methods.
- **UNIT-V** Tables & Graphs : Hash Table, Collision resolution Techniques, Introduction to graphs, Definition, Terminology, Directed, Undirected & Weighted graph, Representation of graphs. Graph Traversal Depth first & Breadth first search, Spanning Trees, minimum spanning Tree, The basic, Greedy Strategy for computing Algorithm of Kruskal and prims.

#### TEXT & REFERENCE BOOK :

Fundamentals of Data structure : By S. Sawhney & Horowith Data Structure : By Trembley & Sorrenson. Data Structure Using Pascal : By Tannenbaum & Alugenstein Data Structure : By lipschuists (Schaume's Outline Series Mograw Hill Publication) Fundamentals of Computer Algorithm : By Ellis Horowitz and Sartaj Sawhney.

### PRACTICAL WORK

- 1. The sufficient practical work should be done for understanding the date structure with C++.
- 2 The sufficient practical work must be performed on stacks queues linked list, trees etc.
- 3. All practical works should prepared in form of print outs and voluated while practical examination.

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#### INDUSTRIAL MICROBIOLOGY

Paper	Title	Time	Marks
First	Agriculture and Food Microbiology	3 hrs.	50
Second	Fermentation Technology & Government Regulations	3 hrs.	50
	PRACTICAL Examination (including sessionals)	4 hrs.	(20+5) 25
	Viva-Voce Exam. based on "Summer Job-Training Repo	ort"	25

#### PAPER-I

#### (Paper Code-0930)

### AGRICULTURE AND FOOD MICROBIOLOGY M.M. : 50

- **UNIT-I** Soil fertility and management of agricultural soils. Influence of available nitrogen on soil-fertility. Importance of crop-rotation. Soil management. Management practices : Pesticides and their impact and effect on soil fertility.
- UNIT-II Microbial diseases of crop plants with special reference to Wheat, Rice, Maize, Groundnut, Mustard, Grapes, Potato and Papaya.
- UNIT-III Control of plant diseases. Chemical control of plant diseases. Biological Control- its mechanism and importance. Biopesticides. Concept of integrated pest management (IRM). Bacterial insecticides.
- UNIT-IV Food spoilage mechanism, Spoilage of stored products, fruits and vegetables. Microbial spoilage of milk and meat. Food borne diseases.
- UNIT-V Food preservation methods Asepsis, Pasteurisation canning, dessication, low temperature, Anaerobiosis, filteration. Chemical preservation of food - salt and sugar, organic acids. Use of SO<sub>2</sub>, ethylene

#### PRACTICALS

1. Study of microbial diseases of crop plants.

and propylene oxides, wood smoke.

- 2. Study of effect of fungicides and insecticides on microorganisms.
- 3. Study of antagonistic activities amongst microorganisms.
- 4. Study of fungal contaminants from stored agricultural products.
- 5. Study of food spoilage microorganisms from sweets and bakery products.
- 6. Study of effect of the preservatives on the growth of microorganisms.
- 7. Study of UV radiations on microorganisms.
- 8. Study of the effect of agrochemicals on soil inhabiting microorganisms.

#### **RECOMMENDED BOOKS** :

- 1. Modern Plant Pathology by Bilgramy and Dubey.
- 2. Food Microbiology by Frazier.
- 3. Microbiology by S.S. Purchit.
- 4. Microbiology by P.D. Sharma.
- 5. Agricultural Microbiology by Rangaswami.
- 6. Plant Pathology by R.S. Mehrotra.

#### PAPER-II

#### (Paper Code-0931)

### FERMENTATION TECHNOLOGY AND GOVERNMENT REGULATIONS

### M.M. : 50

- **UNIT-I** Fermentation equipments and production process. Principal types of fermenters The batch fermenters, continuous stirred tank fermenters, Tubular fermenter, The fluidised bed fermenter, Solid State fermenters. Computer control of fermentation process. Strain improvement process.
- UNIT-II Industrial production of organic acids Lactic and citric acid.

Enzymes - amylase, protease and amino acids - L-lysine and glutamic acid.

UNIT-III Production of alcohol, wine, beer and acetic acid.

Production of antibiotics - Penicillin and Streptomycine.

Industrial production of vitamins - Vitamin B12 and Riboflavin.

**UNIT-IV** Importance of microorganisms in dairy industries. Production of cheese, Butter milk; and in bakery industries - leavening of bread, Indian fermented foods.

Fungi and bacteria as a source of single cell proteins (SCP) and proteins.

UNIT-V Role of international organisation in biotechnology. Government programmes for biotechnology development. Government regulations of recombinant DNA research. Hazardous industrial wastes, Mycotoxin hazards in the production of fungal products. Regulations for disposal of biohazardous materials. Patenting of the products in Industries.

#### PRACTICALS

- 1. Measurement of production of citric acid by Aspergillus niger.
- 2. Measurement and production of alcohol by yeast.
- 3. Demonstration of Transformation of steroids.
- 4. Demonstration of IAA production by microbes.
- 5. Demonstration of enzyme production by microorganisms.
  - (a) Amylase (b) Cellulase

6. Demonstration of mushroom cultivation.

### **RECOMMENDED BOOKS** :

- 1. Industrial Microbiology by L.E. Casida.
- 2. Fermentation Technology by Whittakar.
- 3. General Microbiology, Vol. II, by Powar and Daginawala.
- 4. Molecular Biology and Biotechnology by H.D. Kumar.
- 5. Elements of Biotechnology by P.K. Gupta.

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B.Sc.-III

#### ELECTRONICS

		Max.M.	Min.M
Paper-I	Power Electronics, Microprocessors and IT Fundamental's	50	
Paper-II	Communication Systems	50	33
Paper-III	Practicals and Project	50	17

PAPER - I

#### (Paper Code-0911)

### POWER ELECTRONICS, MICROPROCESSORS AND IT FUNDAMENTAL'S

- UNIT-I Comparative study of semiconductor power Devices : Power Diodes, Power Transistors, Unijunction Transistor, Silicon controlled Rectifier, Diac and Triac. Structural Description and working of Unijunction Transistor (UUT), Characteristic curve, Use of a UUT as a Relaxation oscillator. Description and working of a DIAC, Characteristic curve. Description and working of a Triac, Characteristic curve, Triac as a switch. Silicon controlled Rectifier : Description of the structure and idea of doping profiles of different layers, Two Transistor model analysis of SCR, Voltage current Characteristics, Forward and Reverse Blocking states; Triggering mechanisms and methods of turn on, turn off mechanism.
- UNIT-II 8085 up Instruction Sets and Programing of 8085 microprocessor : Logic 8 bit Instructions of 8085 Data Transfer (copy) Instructions, MOV, Arithmatic Instructions (ADD, ADI, SUB, SUI, INR, DCR), Logic operations : ANA, ANI, ORA, ORI, XRA, XRI, Branch Operations : Unconditional and Conditional Jump Instruction, Rotate Operations : RLC, RAL, RRC, RAR, 16 Bit Arithmatic and Logical operations.

Use of Instruction set to make following programs.

- Data Block Transfer.
- Di To Arrange a Series in Assending and Decending Order.
- (ii) Largest Number Finding.
- (b) To Carry out simple arithmatic operations : Addition, Division Multiplication, Subtraction.
- **UNIT-III** Programmable Interface Devices : Internal Architecture and pin out diagram of the 8155/8156 and 8355/8755 Multipurpose Programmable Devices, The 8279 Programable kayboard/display interface.

Interfacing Data Converters : Digital to Analog (D/A) converter, Analog to Digital (A/ D) converter.

#### UNIT-IV Information Technology :

Information theory - Introduction information in communication system, measurement of information, the binary digit (bit).

Data sets and their connection requirements, Modem : Classification, modes of modem operation, modem interconnection, modem data transmission speed.

Internet basics : Basic information about Http, WWW, HIML, shell and TCP/IP account, Browsers - Netscape and Internet explorer, e-mail.

#### UNIT-V Communication Technology :

LAN, WAN and MAN, wireless network, Internetwork, network topology, OSI and TCP/ IP reference models, comparision between them and their criticism. Details about Physical layer : magnetic media, twisted pair (UIP and STP), coaxial cable, fiberoptic cable Basic idea about ISDN.

### **REFERENCES** :

1.	Power Electronics	:	M.H. Rashid Prentice Hall of India, New Delhi.
2	Microprocessor Architecture	:	R.S. Gaonkar Penram Publication, Mumbai.
	Program and Applications		
3.	Computer Network	:	A.S. Tanebaum, Second Edition Prentice Hall of
			India Pvt. Itd.
4.	Introduction to Microprocessors	:	A.P. Godse, VIU Publishers, Pune.
5.	Power Electronics	:	Alok Jain Penram Publishers, Mumbai.
6.	Microprocessors & Interfacing	:	Douglas V. Hall Tata Mograw Hill.

#### PAPER - II

#### (Paper Code-0912)

#### COMMUNICATION SYSTEMS

- **UNIT-I** Analysis of passive filters (low pass, band pass and high pass), elementary idea of active filters-Butterworth and Coevyshev response) Noise : Thermal noise, shot noise, Partition noise, low fequency and transit time noise, Generation and recombination noise, equivalent noise resistance, signal to noise ratio, noise factor, noise temperature.
- UNIT-II Modulation : Principle of modulation, wave spectra and effect of filtering an complex wave : Amplitude modulation; frequency spectrum of AM, average power average voltage, modulation index for multiple sine waves, linear and square modulators, collector modulator, balance modulator, single side band (SSB) generation/method, diode detector, advantages and disadvantages of SSB over DSB AM : SSB detection, Transmitters and Receivers : Superheterodyne receiver, AM Transmitters.
- UNIT-III Angle Modulation : Elements of frequency and phase modulation frequency spectrum of FM waves, inter system comparisions (FM and AM); Generation of FM, direct and indirect methods; Angle - Modulator circuits, varactor diode and FET modulators; Foster Seelay discriminator and ratio detector.
- UNIT-IV Pulse Modulation : Pulse Modulation, pulse transmission, pulse amplitude modulation, time division multiplexing, pulse time modulation, pulse width and pulse position modulation, digital filtering, pulse code modulation; Block diagrams of POM transmission and receiving circuits.
- **UNIT-V Television engineering :** Scanning process, characteristics of human eye, aspect ratio, persistence of vision and flicker, resolution and video bandwidth, interlaced scanning, blanking, synchronizing and equalizing pulses, Vestigial side band signal, standard channel characterstics, TV camera tubes Image orthicon and vidicon; Block diagram of TV transmitter and receiver.

Three colour system, luminance and chrominance signal, colour TV camera, Shadow mask, Trinitron and in line colour picure tubes.

#### **REFERENCES** :

1.	Electronic Communication Systems	:	George Kennedy, Tata Mcgraw Hill.
2.	Principles of Communication Systems	:	Taub & Schilling TMH
3.	Communication Systmems	:	Simon Haykin, Mcgraw Hill.
4	Monochrome & Color Television	:	R.L. Gulati, New Age International, New Delhi.

#### PAPER - III

### PRACTICALS AND PROJECT

A student is required to do atleast 12 experiments and a project work in the academic year.

The scheme of practical examination will be as follows :

- One experiment and Working and Demonstration of Project works 5 :
  - Marks

Total	-	50
Sessional	-	10
Project work & Viva	-	15 (10+5)
Viva	-	05
Experiment	-	20

1. Study of SCR characterstics.

2. Study of Diac and Triac characteristics.

3. Study of UJT Characterstics.

4. Study of WT as a relaxation oscillator.

5. Study of AM generation and detection.

- 6. Radio Receiver measurments.
- 7. Study of low pass, band pass and high pass filters.
- 8. Study of FM using voltage controlled oscillators.
- 9. Study of DC choppers.
- 10. Study of Pulse code modulation.
- 11. Study of electronic ragulation of D.C. & A.C. Motors.
- 12. Any four experiments on microprocessors.

NOTE : Other experiments of equal standard may also be set.

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### ANTHROPOLOGY

### PAPER-I

### (Paper Code-0919)

#### "FUNDAMENTALS OF HUMAN GENETICS & HUMAN GROWTH"

AIM- The aim of this paper is to introduce the students the basics of Human Genetics and Human Growth.

- UNIT-I Human Genetics : History, aims and scope. and its application to human society Cell division : Mitosis and Meiosis. Mendelism, Chromosomes ; Normal and Abnormal chromosomes. Genes, concept of DNA & RNA. Types of Inheritance : autosomal, (Dominant and Recessive). Sex linked Inheritance.
- **UNIT-II** Concept of Race. Formation of Racial groups. Criteria for racial classification. Racial elements in India. Major stocks of the world and their broad sub divisions.
- **UNTT-III** Types of twins and their importance in genetic investigation. Inheritance of ABO Blood groups, P.T.C., Colour blindness and dermatoglyphics. Genetic councelling, Eugenics. Population Genetics.
- **UNIT-IV** Definition and scope of Human growth. Methods of studying human growth and Development. Ageing, Nutritional requirement for normal growth. Common nutritional disorder (Protein, Fat, Carbohydrates, Mineral, Vitamin).
- **UNIT-V** Ecology : definition and scope. Varieties of human ecosytems. Environmental Population. Definition, nature and scope of biological demography. Demographic Profiles : Fertility, Mortality, Morbidity.

### **RECOMMENDED READINGS :**

1.	Agrawal S.N.	:	India Population Problems
2	Bogue	:	Principles of Demography
3.	Bresler	:	Human Ecology
4.	Gran and Shamir	:	Methods of Research in Human Growth
5.	Hami.II.	:	Biochemical Genetics Man
6.	Harrison. A.E. (editor)	:	Human Biology
7.	Phyllis and Home, P.S.	:	Basic nutrition in health & disease
8.	Race, R.R. & Sanger R.	:	Blood Group in Man
9.	Stem C.	:	Principles of Human Genetics
10.	Tanner, J.M.	:	Human Growth
11.	Theodarson	:	Studies in Human Ecology
12.	Walson and Lowry	:	Growth and Development of Children
13.	Winchester A.W.	:	Principal of Genetics
14.	रघुवंशी अरूण एवं चन्द्रलेखा	:	पर्यावरण प्रदूषण
15.	Sinnot, Dunn & Dozansky	: Pri	nciples of Genetics

#### PAPER-II

#### (Paper Code-0920)

### THEORIES IN SOCIAL CULTURAL ANTHROPOLOGY

**AIM**: The main aim of this course is to introduce the student about the basic pricinciples and Theories of Social cultural Anthropology to-provide preliminary understatnding of various theoretical models evolved by Social and Cultural Anthropology.

- UNIT-I The contributions made by the following Anthropologists to Social-Cultural Anthropology.
   (I) E.Durkheim, (II) F. Boas, (III) R. Redcfield, (IV) A. L. Kroeber, (V) S.C. Dube, (VI) M.N. Shrinivas, (VII) L.P. Vidyarthi.
- UNIT-II Evolution: Biological and cultural Evolutionism; classical Evolutionism; E.B. Tylor, L.H. Morgan.

Neo - Evolutionism; jLeslie white, Gordon childe.

Culture traits, Culture Complex, Culture Area, Culture focus.

Diffusion of Culture : British diffusionist : Genman - Austrian diffusionist (Kuttre kriese American diffusionist (Culture Area).

- UNIT-III Function and structure: Functionalism ( Malinowski) and Structure Functionalism ( Redcliffe Brown ) Structuralism ( Levi strauss).
- UNIT-IV Personality : Basic personality and Model personality. Culture pattern : Configurationalism (Ruth Benedict). Anthropological study of National character.
- **UNIT-V** Feild work tradition in Anthropology Major tools of Research: Schedule, Questionaire, Participant observation, interview, case study, Geneological Method. The main bases of Anthropological Methods: Historical Method, Comparative Method and Functional Method.

#### PAPER-III

#### PRACTICAL

**Obejctive :** The main of this practical coures is to introduce the student about the tools and Method, analysis & statistical methods used in Human Biology. Laboratory Procedures in blood grouping and dermatoglyphics would give confidence in Dealing with all the applied dimensions they process.

#### PART-I : Somatometry :

(a) Measurements on body :

(i) Height vertex, (ii) Height tragus, (iii) Suprastemale height, (iv) Biacromial Breadth, (v) Bi-illioncristal breadth, (vi) Tibial Height, (vii) Upper extremity Length, (viii) Sitting height, (ix) height dactylion, (x) Body weight.

- (b) Head and Face Measurement :
  - ♦ Morphological upper facial length.
  - Deprive the physical product of the physical second second
  - (ii) Morphological facial length.

- (iv) Bizygomalic breadth.
- (v) Max head length
- (vi) Max head breadth
- (vii) Nasal length
- (viii) Nasal breadth
- (c) Indices :
  - ♦ Cephalic Index
  - 🔅 Nasal Index
  - (iii) Facial Index

### PART-II Genetic Traits :

ABO blood group ; colour blindness, PTC taste sensitivity, Dermatioglyphics, Methods of taking finger and palm prints and their analysis.

### PART-III Statistics

Mean, Median, Standard deviation,  ${\rm X}^2$  test.

### BOOKS RECOMMENDED :

1.	Basin M.K. and I.P. Singh	:	Anthropometry
2	Cummins H. and Midlo C.	:	An Introduction of Dermatoglyphics
3.	Dunsford and Bowley	:	Blood Group Techniques
4	Fisher R.S.	:	Statistical methods for Research Workers
5.	मित्रा, मिताश्री	•	प्रायोगिक मानव विज्ञान भाग-2
6.	Olivia	:	Practical Anthropology

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#### ELECTRONICS EQUIPMENT MAINTENANCE

		Max. Marks	Min. pass Marks
Paper - I	Trouble shooting and maintenance of audio	50	17
	and video Equipments.		
	Practical	50	17
	Project	50	17

#### PAPER-I

(Paper Code - 0913)

#### TROUBLE SHOOTING AND MAINTENANCE OF AUDIO

#### AND VIDEO EQUIPEMENTS

#### UNIT-I REMOTE CONTROL AND SPECIAL CIRCUITS :

Remote control, electromechanical control system, electronic touch tuning frequency synthesiser, TV tuner, automatic fone tuning (AFT), booster emplifier, automatic brightness control, instantious circuitry, picture tube boosters.

#### ALIGNMENT AND SERVICING EQUIPMENTS :

Antistatics and low leakage multimeters, soldering Iron, Vacuum tube voltmeter (VT VM) Cathode Ray Oscillouscope (CRO) single Generation Video pattern Generator Coulor IIur Generation Vector Scope, High voltage probe Cable connectors shielding and Graunding.

#### UNIT-II TELEVISION :

Trouble shooting procedure, troubles shooting monochrome receivers, servicing of various functional blocks, trouble, shooting colour receivers, servicing circuit modeles, saprets precautions in television servicing.

#### **TELEVISION CAMERA TUBES :**

Basic principles and maintenance recording.

#### UNIT-III BLOCK DIGRAM OF VCR :

Requirement of VCR, retaining video drums, helical scan, guard band, frequency response, serva systems, tape tension regulatar, real servo, system control.

Different formats, the quacruplex format, type B segmented format, type C formet, the U matic format, the 1/2" V.H.S. format, 3-Max system.

### UNIT-IV SINGAL PROCESSING, CHROME PROCESSING :

Colour under technique, recovery of down converted chrome signals, luminance processing. frequency modulation, deviation and band width, autometic gain correction, limited, pre-emphasis, replay of luminance signal, Y/C delay, drop out compensator, block diagram of main requirements, zero guard band system, turners and modulators, the modulator.

Servo mechanisms and system control :

Recording, playback, tracking, capstan servo system control, loading and tereading and play mode, record mode, auto stops, counter, audio video muting.

#### UNIT-V CARE OF MECHANICAL SYSTEM :

Cleaning of head and tape path. Lubrication, replacement of parts, replacement of audio CTC head, replacement of video drum, dihedral error, table height, tape tension. drive toungue stop brenks.

#### ELECTRONIC SYSTEM ALUGNMENTS :

Instruments, fault finding the power supply, free furning speed the servo system, tracking, video system, playback section alignment, amplifier balance and gain, luminance signal adjustment, D.O.C., F.M. demodulator, limited balance, carrier leak, noise canceller, colour processing, up conversion automatic colour correction, autometic face connection recording, luminance, synctip or clamping frequency, deviation set, white clip, chrominance, summary.

#### NEW TECHNOLOGIES :

Industrial aspects of consumer electronics, jigs and fixture, quality control/ management, production techniques, business cycle new technologies, compact disc, laser disc.

### PAPER - II (Paper Code - 0914) PRACTICAL

A student is required to do atleast 2 experiments in an acadmic year, and one month summer Training. The scheme of practical examination will be as follows :

(1) On experiment of 3 hours duration and one month summer Training.

(2) The marks for summer training will be awarded by the teachers teaching the students on the basis of the certificate issued by the external supervisor of the summer training.

Marks

	Total	50	Marsk
on month summer training	1	15	Marks
Sessional 10			
Experiment		25	Marks

Orientation and connection to TV antenna. Knowledge of booster connection and replacement. Knowledge of bloon Unit - different types (for different TV sets) and replacement of ballon, Replacement of front end.

Power supply and resistance cold tests. Voltage measurement at different points. To build SMPS for voltage between 6-15 volts (using IC's).

Horizantal and vertical oscilator checking and testing using CRO.

To see and read circuit diagram and to identity (Locate) various block on p/s, H and V deflection, video amplifier, audio, section, chroma section, IF section, tuner, tube and direction yokes (connecting and adjustment).

Audio section wave form testing step by step-sound separator, sound take off from IF section and tenonwards to detector amplifier, IF alignment and loud speaker. (intercarrier sound take off).

If stage testing : IF alignment, tunner and band select.

Chroma processor : testing singals at various IC's.

Remote control studies-range, direction various, controls, IR transmitter and receiver, coding of signal.

Fault finding : cold testing and voltage testing of various parts. (Revision of parts 1 to 9).

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(64)

### BIOTECHNOLOGY

#### PAPER - I

### GENERAL BIOTECHNOLOGY

#### Plant, Environment and Industrial Biotechnology

Time : 3 Hrs

MM-50

UNIT-I Plant cell and tissue culture : General introduction history, scope. Application of tissue culture Concept of cellular differentiation. Agro bacterium. Ti and Ri plasmid. Bt gene. Molecular marker (RFLP, RAPD), edible vaccines.

- UNIT-II Organogenesis, Embryogenesis. Protoplast isolation and fusion. Germplasm storage and Cryopreservation. Anther and Ovary culture.
- UNIT-III General introduction and scope of environmental biotechnology. Environmental pollution and its type. Control of pollution through biotechnology, Wastewater treatment :- Physical, Chemical, and Biological.
- UNIT-IV Biofertilizer, Biopesticides, IPR. Global environmental problem- General introduction, Ozone depletion. Acid rain. Green house effect.
- UNIT-V Bioreactors and its type. Fermentation (Lactic acid, alcohol). Maintenance of Industrial microorganisms. Food technology- introduction, canning. packing and food preservation.

## PAPER - II IMMUNOLOGY

Time : 3 Hrs

MM-50

- UNIT-I Immunology General Concept, history and Development. Immune system and immunity, Organization of Immune system. Antigen - Antibody and its type.
- UNIT-II Cell involved in immune system. Type and cells. Basic structure and function. Cytokines.

Cell mediated immunity Interferons. Hypersensitivity.

INTT-III Antigen - antibody interaction. Principles and types. Immunohaematology - General concept. Blood group system. Rh factor. medical application of blood groups. UNIT-IV Origin and diversity in immune system.

Effectors mechanisms.

Immunity of infection diseases monoclonal Antibodies.

UNIT-V Autoimmune diseases. Hemolytic anemia. Rheumatoid arthritis. Insulin dependent diabetes. Myasthenia gravis. Organ transplantation. Immunodeficient diseases. Cancers. AIDS.

### PRACTICAL

#### EXPERIMENTS

### Plat:

- 1. Sterilization of plant materials.
- 2. Preparation of Tissue culture media.
- 3. Plant tissue culture by plant parts.

#### Environment :

- 1. Determination of total dissolved solids of water.
- 2. Determination of DO, BOD, COD of water.
- 3. MPN Test.

#### Industrial :

- 1. Food preservation techniques.
- 2. Application of biopesticieds on microorganisms
- 3 Production of Citric acid by microorganisms.

#### Immunology :

- 1. Blood grouping in relation to Antigen Antibody interaction.
- 2. Rh factor determination.
- 3. Widal Test
- 4. VDRL Test.
- 5. Double diffusion experiment
- 6. ELISA Test

### BIOTECHNOLOGY

Time :	4 HR	8	MM - 50	
	Sch	neme	Marks	
	1.	Experiment based on Paper - I		
		Plant tissue culture	08	
		🛱 Environment / Industrial	07	

	Total	50
5.	Sessional	05
4.	Viva-voce	05
3.	Spots 05 (based on paper I & II, at least two spots from each paper)	10
2	Experiment based on Paper - II	15

#### BOOKS-

- 1. A test Book of Biotechnology : Indu Shekher Thakur I.K. International Pvt. Ltd., New Delhi.
- 2. Biotechnology (Fundamentals and Applications) : S.S. Purohit Agrobios (India), Jodhpur.
- 3. Fundamentals of Microbiology and Immunology : Ajit Kr. Banerjee, Nirmalya Banerjee -New central Book Agency (P) Ltd., Kolkata.
- 4. Plant Biotechnology : R.S. Chawla Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
- 5. Plant Biotechnology : B.D. Singh Kalyani Publication, New Delhi.
- 6 Biotechnology : Fundamental & Appliction : S.S. Purohit
- 7. Immunology : J. Kubey et al.
- 8. Immunology : Roitt et al.
- 9. Fundamental of Immunology : W. Paul.
- 10. Plant Tissue culture : Rojdov
- 11. Plant Tissue Culture (Practical) : H.S. Chawla.

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#### BIOCHEMISTRY

### PAPER - I

### MOLECULAR BIOLOGY

#### UNIT-I BASIC CONCEPTS OF GENETIC INFORMATION

- a Nucleic acids as genetic information carriers, experimental evidence e.g. bacterial genetic transformation, Hershey - Chase Experiment, TMV reconstitution resperiment.
- b Central dogma of molecular genetics current version, reverse transcription and retroviruses.
- c Primary structure of nucleic acids and their properties, silent features of eukaryotic, prokaryotic and viral genome; highly repetitive, moderately repretitive and unique DNA sequences.
- d Basic concepts about the secondary structures of nucleic acids, 5' 3' direction antiparallel strands, base composition, base equivalence, bae pairing and base stacking in DNA molecule. and buoyant density and their.

#### UNIT-II STRUCTURAL LAVELS OF NUCLEIC ACIDS AND SEQUENCING

- a Scondary and tertiary structure of DNA : Watson and Crick model, A.B. and Z types of DNA major and minor grooves, chirality of DNA, tertiary structure of DNA.
- b Structure and properties of RNA; Classes of RNA secondary and tertiary structures.
- c. Nucleic acid hybridization : Cot Value and satellite DNA.
- d Sequencing : Restriction and modification system; sequencing of DNA and RNA.

#### UNIT-III a DNA REPLICATION

DNA replication in prokaryotes - conservative, semi conservative and dispersive types, experimental evidence for semi conservative replication. DNA polymerases, other enzymes and protein factors involved in replication. Mechanism of replication. Inhibitors of DNA replication.

#### b. TRANSCRIPTION

Transcription in prokaryotes RNA polymerase, promoters, initiation, elongation and termination of RNA synthesis, inhibitors of transcription. Reverse transcriptase, post transcriptional processing of RNA in eukaryotes.

#### UNIT-IV TRANSLATION AND REGULATION OF GENE EXPRESSION

- a. Genetic code : Basic feature of genetic code, biological significance of degeneracy. Wobble hypothesis, gene within genes and overlapping genes.
- h Mechanism of translation : Ribosome tructure, A and P sites, charged tRNA, fmat-tRNA initiator codon, Shine Dalgarno consensus sequence (AGGA), formation of 70S initiation complex, role of EF-Tu, EF-Ts, EF G and GIP, nonsense codons and release factors RF 1 and RF 2.
- c Regulation of gene Expression in prokaryotes : Enzyme induction and repression,

operon concepts, Lac operon, Trp operon.

#### UNIT-V MUTATION AND REPAIR

- a Mutation : Molecular basis of mutation, types of mutation, e.g. transition, transversion frame shift, insertion, deletion, suppresser sensitive, germinal and somatic, backward and forward mutations, true reversion and suppression, dominant and recessive mutation, spontaneous and induced mutations = Ledergerg's replica plating experiment.
- h Mutagenecity testing : Correlation of mutagenecity and carcinogenicity : Ames testing, Random and site directed mutagenesis.
- c DNA Rapair : UV repair system in E.Coli, Significance of thymine in DNA.

#### **RECOMBINATION AND TECHNOLOGY**

Restriction endonucleases, brief discussion of steps in DNA cloning. Application of recombinant DNA technology.

#### Books :

- 1. Biochemistry J David Rawn, Neil Patterson Publisher, North Carolina.
- 2 Molecular biology of the gene JD Watson, NH Hopkins, JW Robert, JP Stretz, AM Weiner, Freeman San Francisco.
- 3. Fundamental of biochemistry by D Voet and CW Pratt, John Wiley & Sons, NY.
- 4. Text book of biochemistry Thomas M Devin, John Weley & Sons, NY.

#### PAPER - II

#### NUTRITIONAL, CLINICAL & ENVIRONMENTAL BIOCHEMISTRY

M.M.-50

#### UNIT-I NUTRITIONAL BIOCHEMISTRY

### Nutrition and dietary habits

- a Introduction and definition of foods and nutritiori. Factors determining food acceptance, physiological, energy, body building (growth and development). Regulation of body temperature. Physiology and nutrition of carbohydrates, fats, proteins and water. Vitamins A,D,E,K, Vit B-Complex and Vit C and minerals like Ca, Fe and Iodine and their biological functions. Basic food groups : energy giving foods, body building foods and protective foods.
- b Composition of balanced diet, recommended dietary allowances (RDA) for average indian, locally available foods, inexpensive quality foods and food stuff's rich in mor ethan one nutrients. Balanced vegetarian diet, emphasis on nutritional adequacy.

#### UNIT-II NUTRITATINE AND CALORIFIC VALUES OF FOODS

a Basic concepts of energy expenditure, units of energy, measurement of energy expenditure by direct or indirect calorimetry, calculation of non protein RQ with respect to carbohydrates and lipids. Determination of heat production of the diet. The basal metabolism and method of measuring basal metabolic rate (BMR), energy requirements during growth, pregnancy, lactation and various physiological activities. Calculation of energy expenditure of average man and women.

b Specific dynamic action (SDA) of foods, naturitive value of various kinds of foods generally used by Indian population. Planning of dietary regimes for infants, during pregnancy and old age. Malnutrition, its implications and relationship with dietary habits and prevention of malnutrition pecially protein-calories malnutrition (Kwashiorkor and Marasmus) by improvements of diets. Human milk and its virtues, breast vs formulated milk feeding. Food preservation standards, food adulterations and precautions, government regulations on poreservation and quality of food.

#### UNIT-III CLINICAL BIOCHEMISTRY

#### 1 Basic concepts of clinical biochemistry

- a Definition and scope of clinical biochemistry in diagnosis, a brief review of units and abbreviation used in expression concentration and standard solutions. Quality control. Manual vs automation in clinical laboratory.
- b Collection and preservation of biological fluids (blood, serum, plasma, urine and CSF) Chemical analysis of blood, urine and CSF. Normal values for important constitutes (in SI units) in blood (plasma / serum), CSF and urine, clearance tast for urea.

#### UNIT-IV Ø CLINICAL ENZYMOLOGY

- a Definition of functional and non-functional plasma enzymes. Isozymes and diagnostics Tests. Enzymes pattern in health and diseases with special mention of plasma lipase, amylase, cholinesterase, alkaline and acid phosphatase, SGOT, SGPT, LDH and CPK.
- b Functional tests of kidney, liver and gastric fluids.
- Hypo and hyper-gylcemia, glycogen storage diseases, lipid mal-absorption and steatorrhea, sphingolipidosis, role of lipoproteins. Inbom errors of amino acid metabolism alkaptonuria, phenyl-ketonuria, albinism, gout and hyper-uricemia.

### UNIT-V ENVIRONMENTAL BIOCHEMISTRY

- **Air pollution :** Particulate matter, compounds of carbon, sulphur, nitrogen and their interactions, methods of their estimation, their effect on atmosphere.
- (ii) Water pollution : Types of water boides and their general characteristic, major pollutants in domestic, agricultural and industrial wastes, methods of their estimation, effects of pollutants on plants and animals, treatment of domestic and industrial wastes, solid-wastes and their treatment.

#### Books :

- 1. Modern nutrition in health and diseaser by Whol and Goodhart.
- 2. Human nutrition and Dietetics-S. Davidson and passmore-ELBS Zurich.
- 3. Tietz fundamental of clinical Chemistry by Cart A Burits & ER Ashwood Saunders WB Co.
- 4. Leacture Notes on Clinical Biochemistry-LG Whitby, AF Smith, GJ Beckett.

#### PRACTICAL FOR IIIrd YEAR

### LABORATORY - III (BCH 305)

- 1. Estimation of DNA by diphenylamine method.
- 2. Effect of temperature on the viscosity of DNA using Ostwald's Viscometer.
- 3. Extraction of RNA and its estimation by Orcinol method.
- 4. Estimation of hemoglobin by measuring total iron in blood.
- 5. Estimation of calcium and phosphorus in serum & urine.
- 6. Estimation of creatine and creatinine in urine.
- 7. Estimation of immunoglobulins by precipitation with saturated ammonium sulphate.
- 8. Denaturation fo enzyme, studies on DNA.
- 9. a. Separation of proteins by column chromatography.
  - b Determination of proteins by dye binding assay.
- 10. Separation of proteins by SDS-polyacrylamide gel electrophoresis.

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## SCHEME OF EXAMINATION & DISTRIBUTION OF MARKS

### **SEMESTER - I**

Paper	Title of the Paper (s)	<b>lote</b> rnal	Term End	Total
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2.	Diama -I	20	80	100
3.	Prose	20		
4.	Fiction	20		

#### SEMESTER - II

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<b>1</b>	Poetry -IL		
2	Drama-II	2	
60	Modern Literature (Poetry and Prose)		
4	Fiction And Stibit Stories		

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#### SEMESTER I PAPER - II DRAMA

#### UNIT-I

Annotations from the detailed text six (6) to be asked (3) three to be Attempted.

UNIT -- II

Manowe Dr. Faustus (D) Shakespeare - Macbeth

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UNIT - III Shakespeare - Tempest (D) Shakespeare - Tweifth Night

#### UNIT - IV

John Milton - Samson Agonistis Ben Johnson - Every Man in his Human

#### UNIT - V

John Webster - Duchess of Malfi (D) W. Congreve - Way of the World

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#### NOTE:

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ext (D) mentioned in syllabus. 6 Passages for annotations to be asked and 3 to be attempted

#### **Recommended Books:**

- 1. Shakespeare's Historical Plays S.C. Senoupta The Resuddress is the owner deterb it.
- 2. History of English Drama Hudson
- 3. Shakespearean tragedy A.C. Bradely
- 4. Theory of Drama Nicoll
- 5. Phe Essential Shakespeare G. Wilson Knight
- 6. A Glossary of Literary teims M.H Abrams



#### SEMESTER I PAPER - III PROSE

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UNIT-ALE CARA Annotations from the detailed text six (6) to be asked (3) three to be attempted

#### UNIT – II

Francis Bacon - Of youth & age, Of Ambition of Death. (D) John Milton - Aewpagitica

#### UNIT – III

James Boswell - Life of Samuel Johnson Joseph Addison - Coverley papers, Sir Roger at church. (D)-The Specialors account of Surgelf. (D)

n on teste de la companya de la comp

#### UNIT - IV

Thomas Carlylo - The Hero do a Poet Charles Lamb - 1. Bechelor's complaint on the Behavior of Married people. (D) 2. Christ Hospital (D)

R.L. Stevenson 1, EL Don

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Recommendate Books:

1. Constant Additional Contract Attracts & Essay 1991. 2. Scholes, Holeorte entraits, Contract Angel States & Essay, 1969. 3. Entraish Pross, Anthelippy of English Essays, Short Stories Delhi OtlP 1988. 4. Battons Essays, Sekanterchowchary 5. A Glossary of Ellerary Territs - M.H Abrams

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#### SEMESTER I **PAPER - IV** FICTION

#### UINT - 1

Samuel Richardson -Ramela Henry Fielding Tom - Jones

#### UNIT - II

Daniel Defoe - Robinson Crusoe **Charles Dickens-Great Expectations** 

#### UNIT - III

Jane Austen= Emma M. M. Thackeray = Vanity Fair

### UNIT - IV Hardy

Thomas Hards Return of the Native
 Winginia Mooil = Dalloway

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<b>UNIT - II</b> William Wordsworth - S.T. Coloridge- Rime o	Fiatern Abby. (D) 1 Aacten Mariner		and and the set the Adda the control there <del>all</del> a la control there <b>all</b>	·
UNIT - di W.B. Shulley - Autonoi Jaim Karnin - Onestara Gan an Tigner Burning	<b>1</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			· · ·
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#### SEMESTER II PAPER – II DRAMA-II

UNIT - I

Annotations from the detailed text six (6) to be asked three (3) to be attempted

UNIT -- II Oliver Goldsmith - She stoops to conquer R.B. Sheridian - The School for scandal (D) म जिस्ती विश्वे के राज्य के दिनी त्रिके राज्य UNIT – III G.B. Shaw - Arms and the Man (D) Galsworthy - Justice T.S. Eliot – Murder in the Cathedral John Osborne - Look back in Anger UNIT - V Henrik Ibson – A Dolls Hose (D) Brecht - Mother Courage and her Children and a set that - La se prize tre 12.07.0 1. The Question Paper will comprise of two sections. Section A and section B. 2. There will be objective questions covering the entire units/contents of the paper. The autoper of an articles will be 10 each of one mark. 3. There will be 5 short answer type guestions each of two marks. 4. In section B there will be descriptive answer type questions from unit II to V of equal marks (12 foreaction and a start with the moreal choice 5. The first questions of section B will comprise of annotations from the detailed text (D) mentioned in sublets in easily for annotations to be asked and 3 to be attempted. a status deves of a mideloop to a second to **Recommended Books :** 1. Raymond Williams : Drama from Ibson to Eliot 2. Atlardvee Nicols - British Drama 3. Raynond Williams : Drama (for this on to Brecht 4. David Clark : Twentieth Centre Interpretation of Wurder in the Cathedral 時間 法运行 法定任于 医注意的 之



#### MESTER II PAPER-III **MODERN LITERATURE (POETRY & PROSE)**

UNIT -- I

61.

Annotations from the detailed text six (60) to be asked three (3) to be attempted.

#### UNIT - II

W.B. Yeats - Sailing to Byzantium, (D) The Second coming. (D) G.M. Hopkins -God's Grandeur, Pied beauty, The sea and The sky lark, The Wind Hover "Tecentral mail: Parets droptate

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#### UNIT -- III

T.S. Eliot - The waste land, W.H. Auden - In memory of W.B. Yeats, (D)

#### UNET - IV

Robert Lynd - Back to the desk, (D), Forgetting, (D), A.G. Gardiner- On the Rule of Road, On saying please. 1.5

#### UNIT - V

OK. Chesterton - On running after one's hat patrietsm and sports. Hillaric Belloc - On Preserving English, On Locks

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4. In section B there will be a section the V of equal analis mange and an and an and the shoreout to the

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#### **Recommended Books:**

445 e -1. A.G. Gardiner: Selected Essaves R.E. Twee Kati

2. The English Essays and tion of the second

3. A Manual of English Prose : Minto

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#### SEMESTER II PAPER – IV FICTION AND SHORT STORIES

#### UNIT – I James Joyce – Portrait of the Artist as a young man D.H. Lawrence – Sons and Lovers.

#### UNIT - II

E.M. Forster – Passage to India Joseph Conrad – Heart of Darkness

#### UNIT – III

Oscar wilde --O Henry - The Happy Prince, The Selfish giant The Gift of Magi, the Last Leaf.

#### UNIT – IV

Katherine Mansfield – A cup of Tea, the Fly Anton Chekhov – The lady with the Dog, The Grass Hopper

#### NOTE:

- 1. The Question Paper will comprise of two sections. Section A and section B.
- 2. There will be objective questions covering the entire units/contents of the paper. The number of questions will be 10 each of one mark.
- 3. There will be 5 short answer type guestions each of two marks.
- 4. In section B there will be descriptive answer type questions from unit I to IV of equal marks (15 for each questions) with 50% internal choice.

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#### **Recommended Books:**

- 1. The English Novel from Dickens to Lawrence: William Raymond (1970)
- 2. Conrad's Heart of Darkness a critical and contextual Discussion: Cadric Walts



#### SEMESTER III PAPER-I CRITICAL THEORY

#### UNIT-1

A. Aristotle – The Poetics

B. Bharat Muni - Natya Shastra

#### UNIT-II

A. Wordsworth - Preface to Lyrical Ballads. B. T.S. Eliot - Tradition and Individual Talent.

#### UNIT -III

A. Ernest Jones: Hamlet, the Psychological Solution B. I.A. Richards - Two uses of language.

#### UNIT-IV

A. Roland Barthes - The Death of the Author

B. Edward Said - From Culture and Imperialism

#### NOTE:

- 1. The Question Paper will comprise of two sections. Section A and section 8.
- 2. There will be objective questions covering the entire units contents of the paper.
- The number of question will be to each a one mark
- 3. There will be 5 short answer type questions each of two marks.
  - 4. IN section there will be descriptive answer type questions from unit I to IV of equal marks (15 for each questions) with 50% internal choice.

#### **RECOMMENDED READING:**

- 1. English Critical Texts by Euright and D chikera.
- 2. The critical tradition by David H. Richter (Bed Ford/St. Martins, Boston)
- 3. Five Approaches of Literary Criticous by Willbur Scitt ( Collier Books New York)
- 4. Indian Aesthetics by C.S. Seturaman (Macmillian).
- 5. Practical Criticism by I.A. Richards (Alled Publishers, New Delhi)
- 6. S. Ramswamy and V.S. Sethruman eds. The English Critical Tradition, Volume II Delhi Macmillan 1977, For Jonthan Culler.
- 7. David lodge, ed. Modern criticism and Theory: A Reader London Longman 1988 for Ronald Barthes, Elaine Showiter.
- 8. David Lodge, ed. Twentieth Century Literary Criticism, London, Longman, 1972 for Northrop Frye, George Lukacs.
- 9. Phillip Rice and Patricia Waugh, Eds. A modern Literary Theory: A Reader Third edition. Arnold, 1999, for Ferdinand de Saussure, Stephe, Greenblatt, Edward said.

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SEMESTER-III Paper -- II (COMPULSORY) INDIAN LITERATURE

#### UNIT - I

Annotations from the detailed text six (6) to be asked three (3) to be attempted.

#### UNIT - II

1. Rabindranath Tagore – Gitanjali (1 to 10) (D) 2. Sri Aurobindo – Savitri Book I (canto 1)

#### UNIT - III

1. Sarojini Naidu – Broken Wing, (D) Indian Weavers, (D)

Village song.(D)

2. Nissiem Ezekiel - Enterprise, Philosophy, Poet Lover, and Bird Watcher

#### UNIT - IV:

1. Rabindranath Tagore – Post office (D) 2. Girish karnad – Naga Mandala

#### UNIT - V:

1. M.R. Anand – Coolie

2. R. k. Narayan - Guide

#### NOTE:

1. The Question Paper will comprise of two sections. Section A and section B.

2. There will be objective questions covering the entire units' contents of the paper. The number of questions will be 10 each of one mark.

- 3. There will be 5 short answer type guestions each of two marks.
- 4. In section B there will be descriptive answer type questions from unit II to V of equal marks (12 for each questions) with 50% internal choice.
- The first questions of section B will comprise of annotations from the detailed text (D) mentioned in syllabus. 6 Passages for annotations to be asked and 3 to be attempted.

#### RECOMMENDED READING

- 1. Indian writing in English By K.R. Srinivas Wengar (steding New Delhi)
- 2. Modern Indo English Fiction by Dhawan R.K. (1982) New Delhi, Bhari Publication.
- 3. Dimensions ^ Indian English literature by Naik M.K. (1984) New Delhi Sterling Publisher.

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SEME PAF AMERICAN	STER III 'ER- III LITERATURE
UNIT – I Annotations from the detailed text six 6to	be asked 3 three to be attempted.
UNIT - II Poetry Walt Whitman - 1. I hear America Singir 2. When Iilacs fast in the Robert Frost - 1. Mending Walls. (D) 2. Birches. (D) 3. Stopping by the Woo	19 e Doonyald Bloomid: ds:on a-Snowy Hydning:(D)
UNIT - III Otama Arthur Miller - Death of a Salesman. (D) Eugene O Neil - Emperor Jones	an an ann an Anna Anna an Anna Anna Anna Anna Anna Anna Anna An An Anna Anna
UNIT – IV Prose Emerson – Self Reliance. (D) Thereau – Civil Disobedience	and an anti-second second s 1999 - Carl State Stat
UNIT - V Fiction Heimosway - Old Manandahe Sea William Faulkner - The Sound and the Fu	ALL
<ul> <li>NOTE:</li> <li>1. The Question Paper will comprise of tw.</li> <li>2. There will be objective questions doven The number of destroits will be 10 each 3. There will be 5 short answer type quest 4. In section B there will be descriptive and equal marks (12 for each questions) with 5. The first questions of section B will com (D mentioned, in syllabus, 6 passage attempted</li> <li>RECOMMENDED READING:</li> <li>1. The cycle of American literature by Rob 2. American literature by An Anthology by 3. Modern American Literature – by A.A. M</li> </ul>	e sections. Section A and section B. Ing the units thirds contents of the paper. It of an the thirds contents of the paper. It of an the third the section of the paper. Swer type gressions from unit If to V of h 50% internat choice. Inprise of an end of the section of the text s for annotations for he asked and to be wert E. spiller. Oliver (S.Chand and Company New Delhi) Autalik Desai & T.S. Anand.
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#### SEMESTER III PAPER - IV (OPTIONAL) 1. HISTORY OF ENGLISH LITERATURE

UNIT – I Elizabethan Age

UNIT – II Neo Classical Age

UNIT – III Romantic Age

UNIT – IV Victorian Age

NOTE:

- 1. The question Paper will comprise of two sections. Section A and section B.
- 2. There will be objective questions covering the entire units/contents of the paper. The number of question will be 10 each of one mark
- 3. There will be 5 short answer type: questions each of the one arks.
- 4. In section B there will be descriptive answer type questions from unit 1 to IV of equal marks (15 for each questions) with 50% internal choice.

#### **RECOMMENDED READING:**

- 1. Rickett, AC History of English Literature New/Delhi: U.BS 1998.
- 2. Evans, Ifor, A short History of English Literature Penguin, 1996.
- 3. Legouis & Cazamion History of English Literature, Macmillan India Ltd. 1983.
- 4. Sampson, George. Concise Cambridge History of English Literature C.U.P. 1976

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SEMESTER III
PAPER IV
(OPTIONAL)
2. LINGUISTICS

#### UNIT – I

History of English Language

#### UNHŤ - II

Linguistics: Definition, Nature and its Scope,

Branches of Linguistics, History of Linguistics,

Some Basic Concepts in Linguistics, (Synchrony and Diachrony) Languages and Parole, Competence and Performance, Syntagmatic and و بهبه Paradigmatic relations Language and communication, Language Variation ( Dialect, Register, Style, Idiolect, Pidgin Creole) And Language Change. सामे खट,

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S	e Sinich	ue Supra	Segmental F	eatures
		sinsectatio	10	

#### **使新闻** — 12

Monthelegy and Syntax: Morpheme, Word Formation Processes in English, Traditional Grammar, IC Analysis, Phrase Structure grammar. ganstrugation - Generative Grammar.

#### NOTE:

- 1. The Question Paper will comprise of two sections. Section A and section B.
- 2. There will be objective questions covering the entire units/contents of the paper. The number of questions will be 10 each of one mark.
- 3. There will be 5 short answer type questions each of two marks.
- 4. In section b there will be descriptive answer type questions from unit I to IV of equal marks (15 for each questions) with 50% internal choice.

#### **Recommended Books**

- Abercrombie, D. Elements of general Phonetics (Edinburg university Press, 1967)
- Balasubramaniam, T.A. Textbook of English Phonetics for Indian Students
  - (Macmillan 1981)

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- 3. Chomsky, Noam. Aspects of the Theory of Syntax (Cambridge, Mass : MIT Press, 1965)
- 4. Crystal, David, Linguistics (Penguin, 1971)
- 5. Hockett, C.F. A. Course on Modern Linguistics (New York : Macmillan, 1958)
- 6. Katamba, F. Morphology (Basingstoke : Macmillan, 1993)
- 7. Lyons J. 1968. Introduction to Theoretical Linguistics (CUP, 1981)
- 8. O' Connor, J.D. Phonetics (Penguin, 1973)
- 9. Robins, R.H. General Linguistics (Longman, 3rd Edition 1980)
- 10. Saussure, Ferdinand de. A Course in General Linguistics, Trans. Wade Baskin (New York: McGraw Hill.)
- 11. Verma S.K. and n. Krishnaswamy. Introduction to modern linguistics (OUP, 1993)



#### SEMESTER IV PAPER – I LITERATURE IN TRANSLATION

#### Unit - I

Kalidas – Abhigyan Shakuntalam from the book (The loom of Life) Translated by Chandra Rajan.

Banabhatta - Kadambari

Unit - Il

Tagore – The Home and the Word translated by Shri Surendra Nath Tagore Amrita Pritam– Ponjar (The Skeleton) translated by Khushwant Singh. ( pinjar)

Unit - IN

Premchand -- Godan translated by Jai rattan and P. Lal Mohan Rakesh- Aadhe Adhure

Unit - IV

Girish Karnad – "The Fire and the Rain Vijay Tendulkar – Ghashiram Kotwal

#### NOTE:

1. The Question Paper will comprise of two sections. Section A and section B.

- 2. There will be objective questions covering the entire units/contents of the paper.
- 3. The number of questions will be 10 each of one mark.
- 4. There will be 5 short answer type questions each of two marks.
- 5. In section B there will be descriptive answer type questions from unit I to IV of equal marks (15 for each questions) with 50% internal choice.

#### **Recommended Books:**

- 1. Das, B. K. A Handbook of Translation Studies. New Delhi: Atlantic Publishers.
- 2. Munday, Jeremy, Introduction Translation Studies London: Rout ledge 2001.
- Naikar, Basavaraj. Indian Literature in English Translation. Delhi: National Publishing House, 2004.
- 4. Encyclopaedia of Indian Literature. Vol. 1-6, New Delhi: Sahitya Academy.

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#### SEMESTER IV PAPER – II DIASPORA AND DALIT LITERATURE

#### UNIT-I

V. S. Naipul – The House of Mr. Biswas Amitav Ghosh – The Shadow Lines

#### UNIT – II

Bharti Mukherjee – Jasmine Arundhati Roy – The God of Small Things

#### UNIT – III

Mulk Raj Anand – Untouchable Vijay Tendulkar – Kanyadaan

#### **UNIT – IV** U.R. Anand Murthy – Samskar Om Valmiki – Jhootan

#### NOTE:

- 1. The Question Paper will comprise of two sections. Sections A and section B.
- 2. There will be objective questions covering the entire units/ contents of the paper. The number of question will be 10 each of one mark.
- 3. There will be 5 short answer type questions each of two marks.
- 4. In section B (15 for each questions) with 50% internal choice.

#### **Recommended Books:**

- 1. K. Satyanarayan & Susie Tharu (ed). No Alphabet in sight: New Dalit Writing from South India. New Delhi: Penguine Books 2001.
- 2. R. Kumar Dalit Personal Narratives. New Delhi: Orient Sharmila Rege. Writing Caste: Writing Gender, Delhi: Ivban 2006.



#### SEMESTER IV PAPER – III WORLD LITERATURE

#### UNIT-I

Annotations from the detailed text 4 to be asked and 2 to be attempted.

UNIT – II

1.	Emily Dickenson -	1.	I felt a funeral in my Brain. (D)	<u>د</u>
2.	Wallace Stevens -	2. 3. 1. 2. 3.	Success is counted sweetest. (D) After great pain a formal feeling comes. Sunday morning. Emperor of Ice cream Vacancy in the park.	(D)
UNIT				
1.	Toru Dutt -	1.	Casuarina Tree (D)	
2.	Kamla Das -	2. 1. 2.	Lakshman (D) A Hot noon in Malabar Nani	• •
		3.	My Grand Mother's House	
<b>UNIT</b> 1. 2.	Mahatma Gamilai - A.P.J. Abdul Kalam		My experiments with Truth Wings of Fire.	· · · · · · · · · · · · · · · · · · ·
<b>UNIT</b> 1. 2.	- V Benokri — Taslima Nasreen —	. : <sup>2</sup>	The Famished Road Lajja	

#### NOTE:

- 1. The Question Paper will comprise of two sections. Section A and section B.
- 2. There will be objective questions covering the entire units/ contents of the paper. The number if questions will be 10 each of one mark.
- 3. There will be 5 short answer type questions each of two marks.
- 4. In section B there will be descriptive answer type questions from unit II to V of equal marks (12 for each questions) with 50% internal choice.
- The first questions of section B will comprise of annotations from the detailed text (D) mentioned in syllabus: 6 passages for annotations to be asked and 3 to be attempted

#### **Recommended Books:**

1. Dhavan, R.k. (Ed) Common wealth Literature Vol. – 4 New Delhi: Creative Books. Naikar, Bhasavaraj: Perspective on Common we alit literature, Jaipur: Book Enclave 2003.

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#### SEMESTER IV PAPER - IV (OPTIONAL) 1. COLONIAL AND POST COLONICAL LITERTURE

#### UNIT – I

George Orwell – Animal Farm Chinuae Achebe – Things fall apart.

#### UNIT – II

Salman Rushdie – Midnight Children Arvind Adiga – The White Tiger

#### UNIT – IIII

Tonni Morison – The Bluest eye. Margaret Atwood – Surfacing

#### UNIT – IV

Alice walker – The Color Purple Jhumpa Lahiri – The Name Sake.

#### NOTE:

- 1. The Question Paper will comprise of two sections. Section A and section B.
- 2. There will be objective questions covering the entire units/ contents of the paper. The number if questions will be 10 each of one mark.
- 3. There will be 5 short answer type questions each of two marks.
- 4. In section B there will be descriptive answer type questions from unit I to IV of equal marks (15 for questions) with 50% internal choice.

#### **Recommended Books:**

1. Jayafoxmraw Culture and anarchy in the novels of Chinuae Achebe.



#### SEMESTER IV PARER - IV (OPTIONAL) 2. GENDER STUDIES

#### UNIT – I

Defining the concept, Sex and Gender. Stereotypes, Gynocriticism, Body Politics, Female Creativity, Social Practices, Sati, Dowry, Rape, Child Marriage, widow hood, Female feticide and prostitution.

#### UNIT — IL

Simon de Beauvoir "The Second Sex" Kate Mikkett "Sexual Politice"

. . . . . . .

#### UNIT -- HL

Virginia Woolf "A Room for one's own" Elaine Showalter "Speaking of Gender"

UNIT – IV

Ellen moers "Literary Women"

#### NOTE:

- 1. The Question Paper will complice of two sections. Section A and section B.
- 2. There will be objective quantients equally the online units/ contents of the paper. The number if questions will be to each of one mark.
- 4. In section B there will be descriptive answer type questions from unit I to IV of equal marks (15 for questions) with 50% internal choice.

#### **Recommended Books:**

1. Nayar, Pramod K-Literary Theory Today, New Delhi : Pratige Asia Book Club (2002)



### अटल बिहारी वाजपेयी विश्वविद्यालय, बिलासपुर (छत्तीसगढ़) सेमेस्टर पाठ्यकम एम.ए. इतिहास

टीप :-- एम.ए. इतिहास सेमेस्टर पद्धति में सेमेस्टर । एवं ॥ में तीन अनिवार्य प्रश्न पत्रों के अतिरिक्त परीक्षार्थियों को कोई एक वैकल्पिक प्रश्न पत्र का चयन करना होगा। प्रत्येक प्रश्न पत्र 100-100 अंकों का होगा। 100 अंकों में 80 अंक सैद्धांतिक एवं 20 अंक आंतरिक मूल्यांकन के होंगे।

Nega ABINGN		ாயிக	सेंटांतिक	आंतरिक
प्रश्न पत्र	प्रश्न पत्र का नाम	J.11.41	And un a.	मल्गांतन
	·			1041471
<b>I</b> •	इतिहास पद्धतियां (अनिवार्य)	100	80	20
	Historical Mathods (Compulsory)			
	आधुनिक विश्व (अनिवार्य)	100	80	20
	Modern world (Compulsory)			
	प्राचीन एवं मध्यकालीन छत्तीसगढ़ (अनिवार्य)	100	80	20
	Ancient and Medieval Chhattisgarh			
	(Compulsory)	· · · · · · · · · · · · · · · · · · ·		
OPTIONAL	ग्रेट ब्रिटेन का इतिहास 1815–1885	100	80	20
IV (A)	History of Great Britain 1815-1885			
OPTIONAL	चीन और जापान का इतिहास1800-1911	100	80	20
IV (B)	History of China & Japan 1800-1911		<u> </u>	
OPTIONAL	मार्स्तीय इतिहास में नारी-प्राचीन एवं	100	80	20
IV (C)	मध्यकालीज			
	Women in Indian History in Ancient Medieval Period			
			TOTAL	400

#### दितीय सेमेस्टर SEMESTER II

			सैद्धांतिक	आंतरिक
प्रश्न पत्र		K in as		मल्यांकन
1	इतिहास लेखन (अनिवार्य)	100	80	20
	Historigraphy (Compulsory)		·	
11	समकालीन विश्व (अनिवाय)	100	80	20
-	Contemporary world (Compulsory)		1	
111	आधूनिक छत्तीसगढ़ (अनिवार्य)	100	80	20
14 A A	Modern Chhattisgarh (Compulsory)			
OPTIONAL	आधुनिक इंग्लैण्ड 1885—1956	100	80	20
IV (A)	Modern England 1885-1956			
OPTIONAL	चीन और जापान का इतिहास 1911-1950	100	80	20
IV (B)	History of China & Japan 1911-1950	\`	<u> </u>	
OPTIONAL	आधुनिक भारत में नारी	100	80	·20
IV (C)	Women in Modern India			
			TOTAL	400



### अटल बिहारी वाजपेयी बिश्वविद्यालय, बिलासपुर(छत्तीसगढ़) सेमेस्टर पाठ्यक्रम एम.ए. इतिहास

टीप :- एम.ए. इतिहास सेमेस्टर पद्धति में सेमेस्टर III एवं IV में परीक्षार्थियों को निम्नलिखित खण्ड--अ एवं खण्ड--ब में से किसी एक खण्ड का चयन कर उसके दोनों प्रश्न पत्रों को हल करना होगा। उपरोक्त 4 वैकल्पिक प्रश्न पत्रों में से परीक्षार्थियों को सरल क्रमांक 1, 3 में से कोई एक एवं 2, 4 में से कोई एक वैकल्पिक प्रश्न पत्रों का चयन करना होगा। सभी प्रश्न प्रत्रों में 100–100 अंक होंगे। 100 अंकों में 80 अंक सद्धांतिक एवं 20 अंक आंतरिक मूल्यांकन के होंगे। ततीय सेमेस्टर SEMESTER III

प्रश्न पत्र	प्रश्न पत्र का नाम	पूर्णाक	सैद्धांतिक	आंतरिक मन्यांकन
खण्ड अःम	ध्यकालीन भारत	<u> </u>		8
SECTION	A : MEDIEVAL INDIA			
l	सल्तनतकालीन भारतीय राजनय एतं		· · ·	
	अर्थव्यवस्था (1200 से 1526 ई. तक)		- 80	- 20
	Indian polity and economy in			
	Sultanate period (1200-1526 A.D.)			
H	सल्तनत कालीन समाज एवं 'संस्कृति		·	
	(1200 से 1526 ई.)	100	80	20
	Society and culture in Sultanate			
	Period (1200-1526 A,D.)	ł		
खण्ड ब : उ	ाधूनिक भारत			<u>.</u>
SECTION	B : MODERN INDIA		·	•
ł	आधुनिक भारत 1757 ई. से 1857 ईतक			
	(राजनीतिक, प्रशासनिक)	100	80	20.
•	Modern India 1757 A.D. to 1857			
	A.D. (Political, Administrative)			
ļ	आधुनिक भारत 1757 ई. से 1857 ई. तक			
·	(आर्थिक, सामाजिक, सांस्कृतिक)	100	80	20
	Modern India 1757 A.D. to 1857			
• • • • • • • • • • • • • • • • • • •	A.D. (Economic, Social, Cultural)			
वैकल्पिक प्रः	न पत्र (OPTIONAL PAPER)	•	<u></u>	
OPTIONAL	भारतीय राष्ट्रीय आंदोलन का इतिहास (1857	100	80.	20
L L	से 1922 ई. तक)			İ
	History of National Movement (1857 to 1922 A.D.)			
OPTIONAL	भारत का सांस्कृतिक इतिहास (फ़ॉरंभ से 1526	100	80	20
11	ई. तुक)			~~~
بويون بر	Cultural History of India (Begining to 1526	i e - million i lini		·····
	A.D.)			
OPTIONAL	भारतीय संविधान और शासन व्यवस्था	100	80	20
	Indian Constitution and Administrative			
	System			
OPTIONAL	पर्यटन सिद्धांत	100	80	20
87	Taxiatan Tt			~~

Atal Bihari Vajpayee Vishwavidyalaya ,Bilaspur (CHHATTISGARH) www.bilaspuruniversity.ac.in

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			TOTAL	400
		<b>में</b> परीक्षा	र्थियों को निम	नलिखित
टीप :- एम.ए.	इतिहास सेमेस्टर पद्धात म समस्टर ॥ ९५ १४	नाः नः आपन न्होन्तों एष	न घत्रों को ह	ल करना
खण्ड—अ एवं ख	ण्ड—ब में से किसी एक खण्ड का चंधन कर उत्तम		3 में से कोई	एक एवं
होगा। उपरोक्त	4 वैकल्पिक प्रश्न पत्रों में से प्राक्षाथिया की सरल प्र	9431949 I,	गर्नों में १००-	100 310
2 4 में से कोई	एक वैकल्पिक प्रश्न पत्रों का चयन करना होगा। स	₩! ५२** > _ <del>```</del>	Υγλί τι Ι <u>ν</u> ν • ι	100 411
नोंगे । १०० अंकों	में 80 अंक सैद्धांतिक एवं 20 अंक आंतरिक मूल्याक-	न क होग	i.l.	
हार्ग गण्ड जन्म	SEMESTER IV			
चतुथ तनर्टर र		पूर्णाक	सद्धातक	आतारक
प्रश्न पत्र   3	1841 AN 447 D.1			मूल्याकन
· []			· · ·	
खण्ड अ : मध्य	कालान भारत			
SECTION A :	MEDIEVAL INDIA		┞╼───┼	
	मगलकालीन भारतीय राजनय एवं अर्थव्यवस्था	400		20
	(1526 से 1750 ई. लक)	100	00	20
	Indian polity and economy in Mughal period	r.		
	(1526-1750 A.D.)			
	मगलकालीन समाज एवं संस्कृति (1526 से 1750 इ.)	100	00	. 20
	Society and culture in Mughal period (1526-			
	1750 A.D.)	<u>.</u>	·	<u> </u>
जनगर त • आष	भूतिक भारत			
	MODEDN INDIA			·
SECTION D				
	आधुर्मिक भारत 1858 इ. रा 1904 रस्थ	100	80	20
	(राजनीतिक, प्रशासनिक)	1 .	<b>1</b>	
	Modern India 1858 A.D. to 1964 A.D.	1	4 - 1 - 1	
	(Political, Administrative)		<u>~</u>	·
	आध्यतिक भारत 1858 ई. से 1964 ई. तक			20
. <b>I</b> I	आयुत्तिय नारत १००० २. मार्ट्स् र	100	80	20
	(3)(2) (a) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3			
	Modern India 1858 A.D. to 1964 A.D.		· [	<u> </u>
	(Economic, Social, Cultural)			
वैकल्पिक प्रश	ন যর (OPTIONAL PAPER)		1 60	20
OPTIONAL	भारतीय राष्ट्रीय आंदोलन का इतिहास (1922 से	100	08	20
	1017 र तक)			
•	1947 S. (147)			
	History of National Wovement (1012 to			
	A.D.)	100	80	20
OPTIONAL	The dol the state the second to 1526 Al		-	
II	Cultural History of India (Degining to 1820	100	80	20
OPTIONAL	भारताय का कन्द्राय तथा प्राताय सारान व्यवस्था	f		
.	Central and State Administrative System C	"   ·		
	India	<del>ii</del> 100	80	20
OPTIONAL	पर्यटन सिद्धात एव व्यवहार-इतिहास क सदन			
• IV	Tourism Theory and Priniciples in Reference	e	1	
	of History		TOTAL	400

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# अटल बिहारी वाजपेयी विश्वविद्यालय, बिलासपुर(छत्तीसगढ़) सेमेस्टर पाठ्यकम एम.ए. इतिहास

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	P	SEMESTER I		<b>_</b> ]
· · ·	Self-states and the second second	ISTORICAL MATU	ORY) ORS	
		इतिहास प्रदन्तिमां	202	
	इकाई 1	Address and addresses	۰.	
	1. इतिहास का अर्थ एवं परि	र्माषौ		
	2. इतिहास का स्वरूप			
	3. इतिहास विज्ञान एवं कला	के रूप में		
	4. इतिहास के प्रकार	han a the the second field of the	·•	
	24/12- 2 5	_		
	3. शतहास का अन्य सभी सा	माजिक विज्ञान विषयों व	रे साथ संबंध	•
	७. शतहारी की साहित्य के स 7 इतिहास में जन्म	थि संबध		
	ः रागुरुग्तं न तथ्य ८ तथ्यों की जाउराज			
	इकाई 3			
	9. इतिहास में जगकजण			
	10. इतिहास में काउल कर कि			
	11. इतिहास में वस्तक्तितम	भार <u>ावा</u> द		
	12. इत्तिहास में पर्वाग्रह		· ·	
· · · · · · · · · · · · · · ·	इकाई- 4		· •	
	13. इतिहास का चक्रवादी सिंह	<u>, 181</u>		· ··· ·· ·
	14. इलिहास का समाज शास्त्री	य सिद्धांत		
	15. इतिहास का आवर्शवादी सि			
	16. इतिहास का तुलनात्मक सि	हात	· ·	
	<b>इ</b> फाइ— 5		-	
	17. इतिहास का आलोचानीत्मव	सिद्धांत		
	18. इंग्लिहास का मोतिकवादी सि 10. बनियान — – – – –	ब्दांत		
	19. शतहास की सापक्षवादी सि	देंग्रि		
	20. शतहालवाद संदर्भ गंध -			
	1) झारखण्ड सौबे - स्वित्यान नर्ग-			
	2) के.एल.खराना एवं आएक वंकच 🚽	and a start france and	terre de la companya	
. (	3) परमानन्द सिंह — इतिहास तर्भन	वहास लखन, धारणाएँ त	था पद्धतियां	
Ì	4) प्रो.राधेशरण – इतिहास पटति टनिस			
	5) गोविन्द चन्द्रपांडे – इतिहास स्वरूप ग	रा शखन ज बिरसंस		
(	<ol> <li>ब्रेजेश कुमार श्रीवास्तव – इतिहास के</li> </ol>	अः हाराद्वात् यसः अवशासकाः भिन्नन्तः		
	7) E.H.Car - What is History	waarii waanii xaalii - tabahka	<b>५</b> व-साधनः	·
(	B) R.G. Collingwood - The Idea of Hist	lorv		
(	) बुद्ध प्रकाश - इतिहास दर्शन			
(* 	0) बुद्ध प्रकाश – इतिहास दुर्शन उद्देश्य	एवं विधि		
(i	1) मानिक लाल गुप्ता – इतिहास-स्वरू	प, अवधारणाएं एवं संचर्भा	प्रिता	
(1 //	<ol> <li>८) पानकुमार बेहार. ऋषिराज पांडेय – इ</li> <li>२) को नेपान पांडेय – इ</li> </ol>	तिहास पद्धति एवं इतिह	रस लेखन	
(1	अ कालश्वर राय - इतिहास दर्शन			
······				

अटल बिहारी वाजपेयी विश्वविद्यालय, बिलासपुर (छत्तीसगढ़) संमेस्टर पाठ्यकम एम.ए. इतिहास

(14) Erich Kahler - The Meaning of History

## अटल बिहारी वाजपेयी विश्वविद्यालय, बिलासपुर(छत्तीसगढ़)

सेमेस्टर पाठ्यकम एम.ए. इतिहास

#### SEMESTER I PAPER II (COMPULSORY) MODERN WORLD आधुनिक दिश्व.

1. विश्व में पूंजीवाद का विकास

2. साम्राज्यवाद का विकास-इंग्लैंड और फ्रांस में

3. साम्राज्यवाद का विकास—जर्मनी और जापान में

4. इंग्लैंड में उदारवाद का विकास

इकाई--- 2

इकाई--- 1

5. बिस्मार्क की आंतरिक एवं विदेश नीति

6. कैसर विलियम द्वितीय की विश्व राजनीति

7. 1900–1910 तक अंतर्राष्ट्रीय संधियां

8. 1912 तक पूर्वी समस्या

इकाई— 3

9. प्रथम एवं द्वितीय बाल्कन युद्ध एवं प्रभाव

10. प्रथम विश्वयुद्ध कारण एवं परिणाम

11. पेरिस की शांति सम्मेलन एवं वर्साय की संधि

12. विश्व में समाजवाद का विकास

#### হকার্হ--- 4

13. 1917 की रूसी क्रांति

14. बोलेशेविक क्रांति एवं लेनिन

15. राष्ट्रसंघ संगठन

16. राष्ट्रसंघ की उपलब्धियां एवं असफलताएं

#### इकाई--- 5

17. प्रथम विश्वयुद्ध के पश्चात् विश्व आर्थिक मंदी का उदय

18. न्यूडील

19. इटली में फांसीवाद--उदय के कारण

20. मुसोलिनी—गृह एवं विदेश नीति

#### संदर्भ ग्रंथ :

(1) दीनानाथ वर्मा – आधुनिक विश्व का इतिहास

(2) के.एल.खुराना एवं शर्मा - विश्व का इतिहास

(3) बिनाके – सुदूरपूर्व का इतिहास

(4) H.G.Wells - World History

(5) Moon & Parker - Imperialism & world politieces

(6) मथुरालाल शर्मा – आधुनिक यूरोप

(7) कालूराम शर्मा -- आधुनिक विश्व का इतिहास



### अटल बिहारी वाजपेयी बिश्वविद्यालय, बिलासपुर(छलीसगढ़)

#### सेमेस्टर पाठ्यकम एम:ए- इतिहास

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(3) J.A	Traveluse Orden England	•		
(4) G.N	n. revelyan - Social History of England		. =	
(5) Rar	nsay Muir - History of England			
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(9) Maitland - Constitutional History of England



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(7) A.C. Gupta - A History of China	
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# अटल बिहारी वाजपेयी विश्वविद्यालय, बिलासपुर(छत्तीसगढ़) सेपेस्टर पाठ्यकम एम.ए. इतिहास

SEMESTER-II :: PAPEBA:(COMFUSSORY) HISTORIOGRAPHY इतिहास व वांगे द्रिप्तिंस लेखन : यूगार्मे, एवं रोमन इतिहास लेखन : येगीरी इतिहास लेखन : प्रम्वकालीन यूपेथीय इतिहास लेखन : प्रम्वकालीन यूपेथीय इतिहास लेखन : प्रम्वकालीन पारतीय इतिहास लेखन- : प्रम्वकालीन पारतीय इतिहास : प्रम्वकालीन पारतीय द्विहास की पान्द्र्य्या : प्रम्वकालन : पारतीय इतिहास की पान्द्र्य्या व्याख्या : प्रम्वेदिय इतिहास की विषय वस्तुक्षम्र प्रम्वकित इतिहास : अत्रतीय इतिहास की विषय वस्तुक्ष्यक एवं अत्रिक : प्रम्वकारी इतिहास लेखन में वामप्रस्थिति का प्रदेशिस : पारतीय इतिहास लेखन में वामप्रस्थी, दक्षिम पंथी वाद- : प्रास्तीय इतिहास लेखन में वामप्रस्थी- दक्षिम पंथी वाद- : प्रास्तीय इतिहास लेखन में वामप्रस्थी, दक्षिम पंथी वाद- : प्रास्तीय इतिहास लेखन में वामप्रस्थी, दक्षिम पंथी वाद- : पारतीय इतिहास लेखन में वामप्रस्थित्वा : पारतीय इतिहास रवित्या व्येक्त में वामप्रस्थी, दक्षिम पंथी वाद- : केतियस वायु कीयि - इतिहास रवेलन (पर प्रातीद-इतिहास लेखन : प्रे केत्यन, आरक्तय वाद्रिय वाद्यन : केतियस वायु कीयिक - इतिहास तर्वन प्र पर्य गर्य ग्रात्यन ख्लम : क्रीवेक्यर या - इतिहास दर्य ग्रां प्रतं प्रस्त क्रां क्रिय : क्रीवेक्यर या - इतिहास तर्वेच्य : केतियस वायु कीयिक - इतिहास वर्य गर्य गर्य क्रिय क्ला : केतियस वायु कीयिक - इतिहास त्रेव्यन : क्रीवेक्यर या - इतिहास लेखन्य : क				
PAPERs14(COMFIPLSORY) HistronCocAPHY इतिहॉस लेखन. २ गीनी युतीहास लेखन. २ गीनी इतिहास लेखन. २ गीनी इतिहास लेखन. २ गीनी विहास लेखन. २ ग्रेंच्येकालीन य्रेसीय इतिहास लेखन. २ प्रव्यकालीन यारसीय इतिहास लेखन. २ अरवी तथा परियिय (फारसी) इतिहास लेखन. २ अयकालीन यारसीय इतिहास लेखन. २ अयकालीन यारसीय इतिहास लेखन. २ अयकालीन यारसीय इतिहास लेखन. २ मयकालीन यारसीय इतिहास लेखन. २ मयकालीन यारसीय इतिहास लेखन. २ मयकालीन यारसीय इतिहास लेखन. २ मयकालीन यारसीय इतिहास की पाइप्राया १ मारसीय इतिहास की सावाल्टन अथका जनवादी व्याख्या १ मारसीय इतिहास की पावर्यवादी व्याख्या १ मारसीय इतिहास की विषय वस्तु-आर्थिक इतिहास १ मारसीय इतिहास की विषय वस्तु-आर्थिक इतिहास १ मारसीय इतिहास की विषय वस्तु-न्त्रालिक सारंकुतिक इतिहास १ मारसीय इतिहास की विषय वस्तु-न्त्राल एवं प्रतिहा १ मारसीय इतिहास की विषय वस्तु-न्त्राल एवं प्रतिहा १ मारसीय इतिहास की विषय वस्तु-न्त्राल एवं प्रतिहा १ मारसीय इतिहास की विषय वस्तु-न्त्राल एवं प्रतिहास १ मारसीय इतिहास ले विषय वस्तु-न्द्राल एवं प्रतिहा १ मारसीय इतिहास लेखन में वाग्रायेखी, दक्षिण पंथी वाद–विवाद संदर्भ प्रंथ: १ गोवेन्द यन्द पाडे – इतिहास तरेखन यापणएं तथा पद्धतियां ३ मेयरल पाड द्विहास रखन एवं सिद्धांत १ मेरवेलप म. इतिहास दर्यन एवं मारतीय-इतिहास लेखन ३ मेरवेलय पाड - इतिहास तरेखन यापणएं तथा पद्धतियां १ मेरवेलप - इतिहास तरेखन प्रं प्रतिहा लेखन १ के वेल्य साहदुर कोयिक – इतिहास तरेखन हथा हक्ष का १ कि मेरवाय – इतिहास दर्यन प्रं यारतीय द्विहास लेखन १ कि स्वाटुर कोयिक – इतिहास तरेखन हथा हक्षि त्रिक्ष विद्य त्राय न्य त्राय न्य न्य क्षि हतिहास लेखन १ के व्य साहदुर कोयिक – इतिहास तरेखन हथा हतिहास लेखन १ कि स्वाटुर कोयिक – इतिहास तरेखन प्रं प्रतिहा क्रा त्राय १ कि स्वाटुर कायिक – इतिहास तरेखन हथा हथा हथा १ कि स्वार्ट व माय्यन न्य प्रंतिहास तरेखन १ कि स्वार्ट व माय्यन न्य प्रतिहा क्रातेखन १ कि स्वान्टन – इतिहास तरेख एवं मारतीय हलिहा तरेखन १ कि स्वान्टन – इतिहास तरेख एवं मारतीय हलिहा तरेखन १ कि स्वान्टन – इतिहास तरेख एवं मारक्र तर्य न्य गर्य गर्य व्र त्रिह तरेखन १ कि स्वान्टन –	SEMESTER-H			
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2. योगी इतिहास लेखन 3. मध्यकालीन गूरोपीय इतिहास लेखन 4. प्रमुदावाची इतिहास लेखन 5. अरवी तथा परशियन (फारसी).इतिहास लेखन 6. प्राचीन भारतीय इतिहास लेखन-सलनत काल 8. मध्यकालीन भारतीय इतिहास लेखन-सलनत काल 9. भारतीय इतिहास की साम्राज्यवादी व्याख्या 10. भारतीय इतिहास की साम्राज्यवादी व्याख्या 10. भारतीय इतिहास की साम्राज्यवादी व्याख्या 11. मारतीय इतिहास की साम्राज्यवादी व्याख्या 12. मारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास 14. मारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास 14. मारतीय इतिहास की विषय वस्तु-न्यार्थिक इतिहास 14. मारतीय इतिहास की विषय वस्तु-न्यार्थिक हतिहास 14. मारतीय इतिहास की विषय वस्तु-न्यामाजिक-सांस्कृतिक इतिहास 14. मारतीय इतिहास की विषय वस्तु-न्यामाजिक-सांस्कृतिक इतिहास 14. मारतीय इतिहास की विषय वस्तु-न्यामाजिक-सांस्कृतिक इतिहास 14. मारतीय इतिहास की विषय वस्तु-न्याक एवं श्रसिक 15. जातीय एवं जनजातीय इतिहास 16. तेत्रीय इतिहास की विषय वस्तु-न्यान्न एवं प्रीतेगीकी 19. मारतीय इतिहास लेख ने विषय वस्तु-न्यान्न एवं प्रीतेगतिकी 19. मारतीय इतिहास लेख निवय वस्तु-न्यान्न एवं प्रीतेगतिकी 10. भारतीय इतिहास लेख न में वाम्प्रार्थी, दक्षिण पंथी वाद-विवाद संदर्भ ग्रंथ: 10. गोविन्द वन्द्र पांडे – इतिहास-लेखन या प्रात्रांत 20. भारतीय इतिहास लोखन में वाम्प्रार्थी, दक्षिण पंथी वाद-विवाद संदर्भ ग्रंथ: 11. गोविन्द वन्द्र पांडे – इतिहास स्वरियां इतिहास लेखन 21. गोविन्य न्यन्द्र पांडिल इतिहास लोखन 23. श्रीहास तर्थन न इतिहास लोखन 24. कीवेरवर पांड - इतिहास र्यात्रा क्षेत्र रा युत्तराक त्रात्र 25. श्रीहाराज शेख पांड प्रिता पर्य पुरात क्षा रहा 26. श्रीहास न होत्रा स त्रेष्य पुरात क्षा र्या युत्तराक का क्षा 27. श्रीहास न होत्रा को सिद्य वर्ष रा यु पुरात क्राठ ई प्रुस 2000 तक 27. श्रीहारा न होत्रा को सिद्य तर्य पु दातिहास लेखन 27. श्रीयास्तव – इतिहास के सिद्यांत स्वरूप एवं हितिहास लेखन 27. श्रीयास्तव – इतिहास के सिद्यांत स्वरूप एवं हितिहास लेखन 27. श्रीयास्तव – इतिहास के सिद्यांत स्वरूप एवं हितिहास लेखन 27. श्रीयास्तव – संतिहा के सिद्यांत स्वरूप एवं हितिहा लेखन 27. श्रियास्त	1. यूनानां एव रोमन इतिहास लेखन			
<ul> <li>अख्यकालान यूरापाय इतिहास लेखन</li> <li>अरबी तथ्या परशियन (फारसी) इतिहास लेखन</li> <li>इजाई- 2</li> <li>5. अरबी तथ्या परशियन (फारसी) इतिहास लेखन</li> <li>६. प्रांचीन भारत में इतिहास लेखन-की परम्पता</li> <li>7. मध्यकालीन भारतीय इतिहास लेखन-की परम्पता</li> <li>8. मध्यकालीन भारतीय इतिहास की साम्राज्यवादी व्याख्या</li> <li>10. भारतीय इतिहास की राष्ट्रवादी व्याख्या</li> <li>11. मारतीय इतिहास की पाइयदादी व्याख्या</li> <li>12. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>14. मारतीय इतिहास की विषय वस्तुकृषक एवं श्रसिक</li> <li>15. जातीय एवं जनजातीय इतिहास</li> <li>16. सेत्रीय इतिहास की विषय वस्तुकृषक एवं श्रसिक</li> <li>16. सेत्रीय इतिहास की विषय वस्तुकृषक एवं श्रसिक</li> <li>17. भारतीय इतिहास की विषय वस्तुकृषक एवं श्रसिक</li> <li>18. सारतीय इतिहास की विषय वस्तुकृषक एवं श्रसिक</li> <li>19. भारतीय इतिहास की विषय वस्तुकृषक एवं श्रसिक</li> <li>20. भारतीय इतिहास लोखन में वासप्रंभी, दक्षिण पंथी वादविवाद</li> <li>संदर्भ प्रंथ</li> <li>11. पोर्वय परा चुतिहास राक्षेत ने इतिहास लेखन</li> <li>21. भारतिय इतिहास राक्षेय वस्तुहीत्वार तथा पद्वतियां</li> <li>22. भारतीय इतिहास राक्षेय वस्तु-का</li> <li>23. भारतीय इतिहास लेखन का वारप्रंभ (या वादतियां</li> <li>24. सतुरेय प्रं द्रिहास त्रेवल वा</li> <li>25. मेराठा - इतिहास राक्षेय वर्षान (या प्रं प्रे वारतीय द्रिहा लेखन</li> <li>26. केवर राज - इतिहास राक्षेन (या प्रं वारतीय-इतिहास लेखन</li> <li>27. श्रीयराज - इतिहास रार्य प्रं वरत राक्ष एवं दितास लेखन</li> <li>24. भारत - इतिहास के सिदात राक्ष एवं दितास लेखन</li></ul>	2. चाना इतिहास लेखन			
<ul> <li>4. अबुदेवावीवी इतिहास लेखन</li> <li>इकाई- 2.</li> <li>5. अरवी तथा परशियन (फारसी), इतिहास लेखन</li> <li>6. प्राचीन भारतीय इतिहास लेखन, की परभ्यरां</li> <li>7. मध्यकालीन भारतीय इतिहास लेखन, की परभ्यरां</li> <li>7. मध्यकालीन भारतीय इतिहास लेखन, की परभ्यरां</li> <li>7. मध्यकालीन भारतीय इतिहास लेखन, की परभ्यरां</li> <li>8. मध्यकालीन भारतीय इतिहास लेखन, कालीन, कुंशन, संदेवन, कुंगले कालीन,</li> <li>इकाई- 3</li> <li>9. भारसीय इतिहास की साम्राज्यवादी व्याख्या</li> <li>10. भारतीय इतिहास की साम्राज्यवादी व्याख्या</li> <li>11. भारतीय इतिहास की साम्राज्यवादी व्याख्या</li> <li>12. भारतीय इतिहास की सवस्त्राय व्याख्या</li> <li>12. भारतीय इतिहास की सवस्तु-आधंक, इतिहास</li> <li>14. भारतीय इतिहास की विषय वस्तु-आधंक, इतिहास</li> <li>15. पातीय इतिहास की विषय वस्तु-आधंक, इतिहास</li> <li>16. दोतीय इतिहास की विषय वस्तु-आधंक, इतिहास</li> <li>16. दोतीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>18. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>19. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>19. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>10. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>11. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>19. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>20. भारतीय इतिहास की विषय वस्तु-किझा एव प्रायतिय हतिहास त्राय</li> <li>21. भानित्य इतिहास का विषय वस्तु-किझा हा</li> <li>22. भारतीय इतिहास तक्ष पद्धां, इतिहास त्राय क्या</li> <li>23. भारतीय इतिहास त्राय - इतिहास त्राय</li> <li>24. भारतीय न्युतिहास लेखन</li> <li>25. भारतीय इतिहास त्राय - इतिहास लेखन</li> <li>25. भारताय - इतिहास दर्शन एवं भारतीय इतिहास लेखन</li> <li>27. श्रीयर - इतिहास दर्शन एवं भारतीय इतिहास लेखन</li> <li>28. श्रियर - इतिहास दर्शन एवं भारतीय इतिहास लेखन</li> <li>29. हिम्मार्ट अध्र दिहा सरकर एवं इतिहास लेखन</li> <li>25. श्रीकार प्र दितिहास के सिद्धत सरकर एवं इ</li></ul>	3. मध्यकालान यूरापाय इतिहास लेखन	·		
<ul> <li>इकाई- 2</li> <li>5. अरवी तथा परशियन (फारसी) इतिहास लेखन</li> <li>6. प्रांचीन भारत में इतिहास लेखन, की परम्परां</li> <li>7. मध्यकालीन भारतीय इतिहास लेखन-मुंग्ल कालीन</li> <li>इकाई- 3</li> <li>9. भारतीय इतिहास की साम्राज्यवादी व्याख्या</li> <li>10. भारतीय इतिहास की राम्राज्यवादी व्याख्या</li> <li>11. भारतीय इतिहास की राम्राज्यवादी व्याख्या</li> <li>12. मारतीय इतिहास की राम्राज्यवादी व्याख्या</li> <li>12. मारतीय इतिहास की साम्राज्यवादी व्याख्या</li> <li>13. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>14. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>15. जातीय एवं जनजातीय इतिहास</li> <li>16. क्षेत्रीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>16. क्षेत्रीय इतिहास की विषय वस्तु-कुषक एवं श्रसिक</li> <li>17. भारतीय इतिहास लेखन वस्तु-कुषक एवं श्रसिक</li> <li>18. भारतीय इतिहास की विषय वस्तु-कुषक एवं श्रसिक</li> <li>19. भारतीय इतिहास लेखन में जामप्रधी, दक्षिण पंथी वाद-विवाद</li> <li>संवर्भ ग्रंथ :</li> <li>(1) मोक्टिय चन्द पांडे – इतिहास त्रखन, धारणाएं तथा पद्धतियां</li> <li>(2) केएल.खुराना, आएके बंसल – इतिहास त्रखन, धारणाएं तथा पद्धतियां</li> <li>(3) प्रो. पांचेरण – इतिहास वर्धन</li> <li>(4) कोतेखर प्राय वर्धना हर्वा</li> <li>(5) कंवर बहादुर कीशिक ने इतिहास तर्थन एवं सिद्धात दर्का छत्व 500 इंपूसे 2000 तक</li> <li>(8) S.P.Sen – History &amp; Historiography in Modern India</li> <li>(9) Ramit Guha - Subaltem Studies (Al Volumes)</li> <li>(10) सी.के श्रीवास को सिदात सरकप एवं इतिहास लेखन</li> <li>(11. होरम न सुरीता म के सिखाल तरकप य इतिहास लोखन</li> <li>(12. R.C.Majumdar - Historiography of Modern India</li> </ul>	4. प्रबुद्धतावादा झंतहास लखन			
<ul> <li>७. अपथा तथा परायेथन (फारसा). इतिहास लेखन 6. प्राचीन भारता में इतिहास लेखन-की पड़पाया 7. मच्यकालीन भारतीय इतिहास लेखन-की लकालीत इकाई- 3</li> <li>9. भारतीय इतिहास की साम्राज्यवादी व्याख्या 10. भारतीय इतिहास की राष्ट्रवादी व्याख्या 11. भारतीय इतिहास की साम्राज्यवादी व्याख्या 12. भारतीय इतिहास की साम्राज्यवादी व्याख्या 12. भारतीय इतिहास की सवलटर्न अधर्की जनवांदी व्याख्या इकाई- 4</li> <li>13. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास 14. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास 14. भारतीय इतिहास की विषय वस्तु-साम्राजिक-सांसकृतिक इतिहास 15. जातीय एवं जनजातीय इतिहास 16. क्षेत्रीय इतिहास तो विषय वस्तु-न्युक्त एवं श्रसिक 18. भारतीय इतिहास तो विषय वस्तु-वृत्तान एवं श्रसिक 18. भारतीय इतिहास तो विषय वस्तु-वृत्तान एवं श्रसिक 19. भारतीय इतिहास तो विषय वस्तु-विज्ञान एवं श्रसिक 19. भारतीय इतिहास तोखन में वागरीशी, दक्षिण पंथी वाद-विवाद संदर्भ ग्रंध : (1) गोविन्द चन्द्र पांडे – इतिहास सरकप एवं सिद्धांत (2) केएल.खुरान, आएक.बंसल – इतिहास लेखन में वागरीशी, दाहीण पंथी वाद-विवाद संदर्भ ग्रंध : (1) गोविन्द चन्द्र पांडे – इतिहास दर्शन एवं भारतीय-इतिहास लेखन (3) को देखर राय – इतिहास पद्रि एवं भारतीय-इतिहास लेखन (4) कोदेखर राय – इतिहास दर्शन एवं भारतीय-इतिहास लेखन (5) देग्व बतुर्य कीसिक – इतिहास दर्शन एवं भारतीय-इतिहास लेखन (6) Gyanendra Pandey &amp; Subaltem Studies (7) ई. भीधरन – इतिहास ठेख एकं पारव पुर्ता दतिहास लेखन (8) S.P.Sen - Histong &amp; Histonography in Modern India</li> <li>(9) Ranjt Guha - Subaltem Studies (Al Volumes) (10) बी.फे श्रीवस्तव – मंडtorलंन इतिहासकार (12) R.C.Majumdar - Historiography of Modern India</li> </ul>			· · · ·	· · ·
<ul> <li>०. प्रायान नारती प्रदाति लुख्नेन का प्रकृता काल</li> <li>१. मध्यकालीन भारतीय इतिहास लेखन-कुगल काल</li> <li>१. मध्यकालीन भारतीय इतिहास लेखन-कुगल कालीन</li> <li>इकाई- 3</li> <li>9. भारतीय इतिहास की साम्राज्यवादी व्याख्या</li> <li>10. भारतीय इतिहास की राम्राज्यवादी व्याख्या</li> <li>11. भगरतीय इतिहास की राम्राच्या वाख्या</li> <li>12. भारतीय इतिहास की मामर्क्यवादी व्याख्या</li> <li>12. भारतीय इतिहास की मामर्क्यवादी व्याख्या</li> <li>13. भारतीय इतिहास की मामर्क्यवादी व्याख्या</li> <li>14. भारतीय इतिहास की मामर्क्यवादी व्याख्या</li> <li>14. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>14. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>15. जातीय एवं जनजातीय इतिहास</li> <li>16. क्षेत्रीय इतिहास की विषय वस्तु-कृषक एवं श्रमिक</li> <li>17. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रमिक</li> <li>18. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रमिक</li> <li>19. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रमिक</li> <li>20. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रमिक</li> <li>21. भारतीय इतिहास की विषय वस्तु-कारी</li> <li>22. भारतीय इतिहास की विषय वस्तु-कारी</li> <li>23. भारतीय इतिहास त्रेखन में खानर्म्या</li> <li>24. भारतीय इतिहास को विषय वस्तु-कारी</li> <li>24. भारतीय इतिहास को विषय वस्तु-कारी</li> <li>25. भारतीय इतिहास त्रेखन धारणाएं तथा पद्धतियां</li> <li>26. भारतीय इतिहास त्रेखन</li> <li>27. के स्थान - इतिहास दर्शन धारणाएं तथा पद्धिस तेखन</li> <li>28. भारती- द्रिक्त केखन दर्शन एवं श्रातीय-इतिहास तेखन</li> <li>29. केवर सादुर क्रिकि दर्शन प्रयं कु प्रात्य प्र प्रतिहा स तेखन</li> <li>21. हित्रास तर्य प्र प्र श्रिक्त कि स्तिय दर्का (यं श्रार्तीय-इतिहास तेखन</li> <li>23. भारषोय - इतिहास दर्शन एवं श्रात्त स्वज क्र र्रा क्रिक तिहा</li></ul>	5. अरबा तथा पराशयन (फोरसा) इतिहास लखन ०. प्राचीन कार्यत के निजन के जिल्ला के जिल			
<ul> <li>गच्यकराणे भारतीय इतिहास लोखनसंतान काल</li> <li>गच्यकरालीन भारतीय इतिहास लोखन</li></ul>	o. प्रायान भारत म इतिहास लक्ष्मन की प्रस्तरा र गण्यस्वरीय आपकीय स्वित्वय के किल्ला के	•.		
<ul> <li>क मवयवात्रां गोरताय इतिहास लोखन-बुराल कालान.</li> <li>इकाई- 3</li> <li>9 मारतीय इतिहास की राष्ट्रवादी व्याख्या</li> <li>10. मारतीय इतिहास की राष्ट्रवादी व्याख्या</li> <li>11. भरतीय इतिहास की राष्ट्रवादी व्याख्या</li> <li>12. मारतीय इतिहास की सवालटर्न अथना जनवादी व्याख्या</li> <li>इकाई- 4</li> <li>13. मारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>14. मारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>15. जातीय एवं जनजातीय इतिहास</li> <li>कातीय एवं जनजातीय इतिहास</li> <li>16. क्षेत्रीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>17. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>18. मारतीय इतिहास की विषय वस्तु-आर्थिक एवं अप्तिक</li> <li>19. मारतीय इतिहास की विषय वस्तु-आर्थिक प्रविक इतिहास</li> <li>16. क्षेत्रीय इतिहास की विषय वस्तु-विज्ञान एवं प्रदिगिक</li> <li>17. भारतीय इतिहास की विषय वस्तु-विज्ञान एवं प्रदिगिक विषय वस्तु-विज्ञान एवं प्रदिगिक</li> <li>19. मारतीय इतिहास की विषय वस्तु-न्दूषक एवं अप्तिक</li> <li>19. मारतीय इतिहास की विषय वस्तु-विज्ञान एवं प्रदिगिक विवाद</li> <li>संवर्ष प्रय :</li> <li>10. भारतीय इतिहास की विषय वस्तु-न्दूषक एवं अप्तिक</li> <li>19. मारतीय इतिहास की विषय वस्तु-निज्ञान एवं प्रदिगिक विवाद</li> <li>संवर्ष प्रय :</li> <li>10. भारतीय इतिहास ते विषय वस्तु-निज्ञान एवं प्रदिगिक विवाद</li> <li>संवर्ष प्रय :</li> <li>11. भारतीय इतिहास तर्थन में वामप्रेयी, दक्षिण पंथी वाद-विवाद</li> <li>संवर्ष प्रय :</li> <li>11. गोवन्द चन्द्र पांडे – इतिहास तर्थन पं सारतीय-इतिहास लेखन</li> <li>20. भारतीय क्रिय वर्गन एवं भारतीय-इतिहास लेखन</li> <li>21. कीतेखर पाय – इतिहास दर्शन एवं भारतीय-इतिहास लेखन</li> <li>22. कीराक – इतिहास दर्शन एवं भारतीय-इतिहास लेखन</li> <li>23. क्रियेखर पाय – इतिहास तर्थन एवं भारतीय-इतिहास लेखन</li> <li>24. कैरेक्वर पाय – इतिहास तर्थन एवं पाद्य पुस्तक ड० ई पुसे 2000 तक</li> <li>24. किरक टर्वने पिक न् डतिहास तर्थन एवं पुत्त हतिहा लेखन</li> <li>25.P.Sen - Historiography in Modern India</li> <li>23. Raifi Guha - Subalten Studies (All Volumes)</li> <li>24. कीरिय चतुरेदी – म्वयकातीन इतिहासकार</li> <li>24. स्तर्य न इतिहास के किद्वत सक्क एवं इतिहास तेखन</li> <li>24. सिंत स्व</li></ul>	१. मध्यकालान मारताथ इतिहास लुखन-सल्तनत काल १. मध्यकालान मारताथ इतिहास लुखन-सल्तनत काल			
<ul> <li>9. भारतीय इतिहास की साम्राज्यवादी व्याख्या</li> <li>10. भारतीय इतिहास की राष्ट्रवादी व्याख्या</li> <li>11. भारतीय इतिहास की साम्राज्यवादी व्याख्या</li> <li>12. भारतीय इतिहास की सवालटर्न अध्यत्र जनवादी व्याख्या</li> <li>इकाई- 4</li> <li>13. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>14. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>14. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>15. जातीय एवं जनजातीय इतिहास</li> <li>16. क्षेत्रीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>16. क्षेत्रीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>17. भारतीय इतिहास की विषय वस्तुकृषक एवं अप्रिक</li> <li>18. भारतीय इतिहास की विषय वस्तुकृषक एवं अप्रिक</li> <li>19. भारतीय इतिहास की विषय वस्तुनिज्ञान एवं प्रौद्योगिकी</li> <li>19. भारतीय इतिहास की विषय वस्तुनाइग्रि</li> <li>20. भारतीय इतिहास ले विषय वस्तुनाइग्रि</li> <li>20. भारतीय इतिहास लेखन में वामप्रियी, दक्षिण पंथी वाद-विवाद</li> <li>संदर्भ ग्रंथ :</li> <li>11. गोवन्द चन्द पांडे – इतिहास स्वरूप एवं सिद्धांत</li> <li>21. गोवन्द चन्द पांडे – इतिहास सर्वरूप एवं सिद्धांत</li> <li>22. भारतीय इतिहास हार्यन</li> <li>23. के राष्ट्र कीशिक – इतिहास दर्शन, धारणाएं तथा पद्धतियां</li> <li>24. के किखर राय – इतिहास दर्शन, धारतीय-इतिहास लेखन</li> <li>25. के रात्त – इतिहास दर्शन, धारतीय-इतिहास लेखन</li> <li>26. प्रिकास वर्शन – इतिहास दर्शन, धारतीय-इतिहास लेखन</li> <li>27. ई. श्रीधरन – इतिहास तर्शन एवं प्रारतीय-इतिहास लेखन</li> <li>28. SP.Sen - History &amp; Historiography in Modern India</li> <li>29. Ranjit Guha - Subaltern Studies (All Volumes)</li> <li>21. औरताय – इतिहास को स्वरित सर्कार ए घ इतिहास लेखन</li> <li>21. R.C.Majumdar - Historiography of Modern India</li> </ul>	ठ. नव्यकालान नारताय झतहास लखन <u>-मुझल</u> कालान इत्यर्ट- २			
<ul> <li>भारतीय इतिहास की राष्ट्रवादी व्याख्या</li> <li>१. भारतीय इतिहास की राष्ट्रवादी व्याख्या</li> <li>१. भारतीय इतिहास की सवस्तवादी व्याख्या</li> <li>१. भारतीय इतिहास की सवस्तवादी व्याख्या</li> <li>१. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>१. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>१. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>१. भारतीय इतिहास की विषय वस्तु-सामाजिक-सांस्कृतिक इतिहास</li> <li>१. भारतीय इतिहास की विषय वस्तु-सामाजिक-सांस्कृतिक इतिहास</li> <li>१. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>१. भारतीय इतिहास की विषय वस्तु-कृषक एवं असिक</li> <li>१. भारतीय इतिहास की विषय वस्तु-कृषक एवं असिक</li> <li>१. भारतीय इतिहास की विषय वस्तु-कृषक एवं असिक</li> <li>१. भारतीय इतिहास की विषय वस्तु-न्कृषक एवं असिक</li> <li>१. भारतीय इतिहास की विषय वस्तु-कृषक एवं असिक</li> <li>१. भारतीय इतिहास लेखन में वामर्मथी, दक्षिण पंथी वाद-विवाद</li> <li>संवर्ष ग्रंध :</li> <li>१. भारतीय इतिहास तर्थन एवं सिद्धांत</li> <li>१. भारतीय इतिहास दर्शन</li> <li>१. भारतीय इतिहास तर्थन एवं भारतीय-इतिहास लेखन</li> <li>३. प्रे प्रिक – इतिहास दर्शन एवं भारतीय-इतिहास लेखन</li> <li>७ केवर बाहुर कौशिक – इतिहास दर्शन, एवं भारतीय-इतिहास लेखन</li> <li>७ कोवर बाहुर कौशिक – इतिहास दर्शन, एवं भारतीय-इतिहास लेखन</li> <li>१. भीयरण – इतिहास हरेत एक पाठ्य पुस्तक 500 ई पुसे 2000 तक</li> <li>१. प्रिक - इतिहास लेख एक पाठ्य पुस्तक 500 ई पुसे 2000 तक</li> <li>३. प्रे औधरन – इतिहास लेख एक पाठ्य पुस्तक 500 ई पुसे 2000 तक</li> <li>१. रिका - Subaltem Studies (All Volumes)</li> <li>१. किय बतुरेदी – मध्यकातीन इतिहास कोखन</li> <li>१. रिय बतुरेदी – मध्यकातीन इतिहास काख</li> <li>१. रिय बतुरेदी – मध्यकातीन इतिहास काख</li> <li>१. रिय बतुरेदी – मध्यकातीन इतिहासकार</li> <li>१. रिय बतुरेदी – मध्यकातीन इ</li></ul>	२५७२ - २ ० भारतीय हसिलप की जाएरवाननी वाक्या	•		
<ul> <li>भारतीय इतिहास की पार्क्सवादी व्याख्या</li> <li>11. भारतीय इतिहास की मार्क्सवादी व्याख्या</li> <li>12. भारतीय इतिहास की सवालठन अध्वेज जनवादी व्याख्या</li> <li>इकाई- 4 <ul> <li>13. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>14. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>15. जातीय एवं जनजातीय इतिहास</li> <li>16. क्षेत्रीय इतिहास की विषय वस्तुकृषक एवं श्रसिक</li> <li>16. क्षेत्रीय इतिहास की विषय वस्तुकृषक एवं श्रसिक</li> <li>17. भारतीय इतिहास की विषय वस्तुकृषक एवं श्रसिक</li> <li>18. भारतीय इतिहास की विषय वस्तुकृषक एवं श्रसिक</li> <li>19. भारतीय इतिहास की विषय वस्तुकृषक एवं श्रसिक</li> <li>20. भारतीय इतिहास को विषय वस्तुकृषक (पंथी) वादविवाद</li> <li>संदर्भ ग्रंथ :</li> <li>(1) गोविन्द चन्द्र पांडे – इतिहास त्वर्फा (व सिदात</li> <li>(2) केएत.खुराना, आर.के बंसल – इतिहास त्वंखनं, धारणाएं तथा पद्धतियां</li> <li>(3) प्रो. राधेशरण – इतिहास तर्शन पंथं सारतीय-इतिहास लेखन</li> <li>(4) कोलेक्ष्य राय – इतिहास दर्शन</li> <li>(5) कंवर बायुर कीशिक – इतिहास तर्शन एवं शारतीय-इतिहास लेखन</li> <li>(6) Gyanendra Pandey &amp; Subaltem Studies</li> <li>(7) ई. श्रीधरन – इतिहास लेख एक पाठ्य पुस्तक 500 ई.पूसे 2000 तक</li> <li>(8) S.P.Sen - History &amp; Historiography in Modern India</li> <li>(9) Ranjit Guha - Subaltem Studies (All Volumes)</li> <li>(10) शे. श्रीवारसव - इतिहास के सिदात रक्षर प्रक प्रार प्रार का खन</li> <li>(11) हेरेस च चुर्ये 1 – म्रयकास के सिदात सरार परा प्रकिय लेखन</li> <li>(12) R.C.Majumdar - Historiography of Modern India</li> </ul> </li> </ul>	उ. गारसाथ इतिहास की राष्ट्राज्यपादा व्याख्या १० भारतीय स्तिराज की राष्ट्रताल लाखा			
<ul> <li>भारतीय इतिहास की संपर्धायों पाखिया पाखिया</li> <li>इकाई- 4</li> <li>13. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>14. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>15. जातीय एवं जनजातीय इतिहास</li> <li>16. क्षेत्रीय इतिहास लेखन</li> <li>इकाई- 5</li> <li>17. भारतीय इतिहास लो विषय वस्तु-कृषक एवं श्रसिक</li> <li>18. भारतीय इतिहास लो विषय वस्तु-कृषक एवं श्रसिक</li> <li>18. भारतीय इतिहास लो विषय वस्तु-कृषक एवं श्रसिक</li> <li>19. भारतीय इतिहास लो विषय वस्तु-कृषक एवं श्रसिक</li> <li>19. भारतीय इतिहास लो विषय वस्तु-कृषक एवं श्रसिक</li> <li>19. भारतीय इतिहास लोखन में वामप्रेथी, दक्षिण पंथी वाद-विवाद</li> <li>संदर्भ ग्रंथ :</li> <li>(1) गोविन्द चन्द्र पांडे – इतिहास स्वरूप एवं सिद्धांत</li> <li>(2) केएल.खुराना, आए.के बंसल – इतिहास त्वेखन, धारणाएं तथा पद्धतियां</li> <li>(3) प्रो राधेरण – इतिहास रवर्डन</li> <li>(4) कोत्वेखर राय – इतिहास रवर्डन एवं भारतीय-इतिहास लेखन</li> <li>(6) Gyanendra Pandey &amp; Subattem Studies</li> <li>(7) ई. श्रीधरन – इतिहास त्वेखन र्धन र्यं पुरस्तक 500 ई.पूसे 2000 तक</li> <li>(8) S.P.Sen - History &amp; Historiography in Modern India</li> <li>(9) स्वारा - Subattem Studies</li> <li>(10) बी.के. श्रीवरास को स्वात प्रचल पद्र दिहास लेखन</li> <li>(11) होते दिवास ने संचात स्वरूप एवं इतिहास लेखन</li> <li>(2) के.एत.आत्रात्र ने सिद्धांत दर्शन राय पुरस्तक 500 ई.पूसे 2000 तक</li> <li>(3) प्रो. क्रेमारन – इतिहास को संघल एक प्रात्र प्रचल प्रच इतिहास लेखन</li> <li>(4) बी.के. श्रीवरान मोखां हाते हात सराक पर्य इतिहास लेखन</li> <li>(5) केवर बहातुर कीशिक – इतिहास को सद्धांत सराक प्रच इतिहास लेखन</li> <li>(6) दिश्यातव – इतिहास को सिद्धांत सराक एवं इतिहास लेखन</li> <li>(7) ई.श्रीवरन – इतिहास को सिद्धांत सराक प्रकण प्रं इतिहास लेखन</li> <li>(11) हो.स. श्रीयराव – इतिहास को सिद्धांत सराक प्रकण प्रं इतिहास लेखन</li> <li>(12) स.С.Majumdar – Historiography of Modem India</li> </ul>	ार, गारसंभ शराखरा पत्र राष्ट्रपादा व्याख्या 11 भारतीय स्तिसज्ज की प्राकर्पतानी जान्या			
<ul> <li>इकाई - 4</li> <li>13. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>14. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>15. जातीय एवं जनजातीय इतिहास</li> <li>16. क्षेत्रीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>16. क्षेत्रीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>18. भारतीय इतिहास की विषय वस्तु-नृष्ठांक एवं श्रसिक</li> <li>18. भारतीय इतिहास की विषय वस्तु-नृष्ठांक एवं श्रसिक</li> <li>19. भारतीय इतिहास की विषय वस्तु-न्कृषक एवं श्रसिक</li> <li>19. भारतीय इतिहास की विषय वस्तु-न्कृषक एवं श्रसिक</li> <li>19. भारतीय इतिहास की विषय वस्तु-न्जाष्ठी</li> <li>20. भारतीय इतिहास को विषय वस्तु-न्जाष्ठी</li> <li>20. भारतीय इतिहास लेखन में वामप्रंथी, दक्षिण पंथी वाद-विवाद</li> <li>संदर्भ ग्रंथ :</li> <li>(1) गोविन्द वन्द्र पांडे – इतिहास त्वरूप एवं सिद्धांत</li> <li>(2) के एल.खुराना, आर.के बंसल – इतिहास लेखन</li> <li>(3) प्रो. राषेत्रपण – इतिहास पद्वतियां इतिहास लेखन</li> <li>(4) कोतेयंघर पय – इतिहास दर्शन</li> <li>(5) कंवर बहादुर कौशिक – इतिहास दर्शन एवं भारतीय-इतिहास लेखन</li> <li>(6) Cyanendra Pandey &amp; Subaltem Studies</li> <li>(7) ई. श्रीघरन – इतिहास तर्थन एक पाउं द्विहास त्रंच 500 ई.पूसे 2000 तक</li> <li>(8) S.P.Sen - History &amp; Historiography in Modern India</li> <li>(9) Ranjit Guha - Subaltem Studies (All Volumes)</li> <li>(10) बी.के श्रीवारसत – इतिहास का स्वित्य रक्षण एवं इतिहास लेखन</li> <li>(11) हेरम्ब चतुर्ये – मध्यकालीन इतिहास तर्थन एवं इतिहास लेखन</li> <li>(2) वी.के. श्रीवारस तर्थन प्रतिहास का प्रवाल प्रकृति प्रवतिय हतिहास लेखन</li> </ul>	12 मारतीय देविद्यम् की सत्यन्नर्न अभय जनतारी व्याप्यम	•	,	
<ul> <li>13. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास</li> <li>14. भारतीय इतिहास की विषय वस्तु-सामाजिक-सांस्कृतिक इतिहास</li> <li>15. जातीय एवं जनजातीय इतिहास</li> <li>16. क्षेत्रीय इतिहास तोखन</li> <li>इकाई- 5</li> <li>17. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>18. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>18. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>19. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>20. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>20. भारतीय इतिहास लेखन में वामप्रथी, दक्षिण पंथी वाद-विवाद</li> <li>संदर्भ ग्रंथ :</li> <li>(1) गोविन्द चन्द्र पांडे – इतिहास त्वरूप एवं सिद्धांत</li> <li>(2) केएल.खुराना, आर.के.बंसल – इतिहास-लेखन, धारणाएं तथा पद्धतियां</li> <li>(3) प्रो. राषेशरण – इतिहास पद्धतियां इतिहास लेखन</li> <li>(4) क्रैत्वेखर राय – इतिहास दर्शन</li> <li>(5) कंवर बहादुर कीशिक – इतिहास दर्शन एवं भारतीय–इतिहास लेखन</li> <li>(6) Gyanendra Pandey &amp; Subaltern Studies</li> <li>(7) ई. श्रीघरन – इतिहास वर्ष पुरुष पुस्तक 500 ई.पूसे 2000 तक</li> <li>(8) S.P.Sen - History &amp; Historiography in Modem India</li> <li>(9) Ranjit Guha - Subaltern Studies (All Volumes)</li> <li>(10) बी.के. श्रीवास्तव – इतिहास के सिद्धात त्वरूप एवं इतिहास लेखन</li> <li>(11) हेरम्ब चतुर्यदी – मध्यकालीन इतिहासकार</li> <li>(12) R.C.Majumdar - Historiography of Modem India</li> </ul>	हर्लाई– 4			
<ul> <li>14. मारतीय इतिहास की विषय वस्तु-साम्राजिक-सांस्कृतिक इतिहास</li> <li>14. मारतीय इतिहास की विषय वस्तु-साम्राजिक-सांस्कृतिक इतिहास</li> <li>15. जातीय एवं जनजातीय इतिहास</li> <li>16. क्षेत्रीय इतिहास लेखन</li> <li>इकाई- 5</li> <li>17. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रसिक</li> <li>18. भारतीय इतिहास की विषय वस्तु-निज्ञान एवं श्रीसिक</li> <li>19. भारतीय इतिहास की विषय वस्तु-न्तृष्ठी</li> <li>20. भारतीय इतिहास लेखन में वागर्थशी, दक्षिण पंथी वाद-विवाद</li> <li>संदर्भ ग्रंथ :</li> <li>(1) गोविन्द चन्द्र पांड – इतिहास स्वरूप एवं सिद्धांत</li> <li>(2) के.एल.खुराना, आर.के.बंसल – इतिहास-लेखन, धारणाएं तथा पद्धतियां</li> <li>(3) प्रो. राषेशरण – इतिहास पद्धतियां इतिहास लेखन</li> <li>(4) कीलेश्वर राय – इतिहास दर्शन एवं भारतीय–इतिहास लेखन</li> <li>(5) कवर बहानुर कीशिक – इतिहास दर्शन एवं भारतीय–इतिहास लेखन</li> <li>(6) Gyanendra Pandey &amp; Subaltem Studies</li> <li>(7) ई. श्रीधरन – इतिहास तर्थन एवं पुरत्व प्रत्व 500 ई.पूसे 2000 तक</li> <li>(8) S.P.Sen - History &amp; Historiography in Modem India</li> <li>(9) Ranjit Guha - Subaltern Studies (All Volumes)</li> <li>(10) बी.के. श्रीवास्तव – इतिहास के सिद्धात स्वरूप एवं इतिहास लेखन</li> <li>(11) हेरम्ब चतुर्येदी – मध्यकालीन इतिहासकार</li> <li>(12) R.C.Majumdar - Historiography of Modem India</li> </ul>	र गर्भ जे 13 भारतीय इतिहास की विषय तस्त			
<ul> <li>15. जातीय एवं जनजातीय इतिहास</li> <li>16. क्षेत्रीय इतिहास लेखन</li> <li>इकाई- 5</li> <li>17. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रमिक</li> <li>18. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रमिक</li> <li>19. भारतीय इतिहास की विषय वस्तु-निज्ञान एवं प्रौद्योगिकी</li> <li>19. भारतीय इतिहास की विषय वस्तु-निज्ञान एवं प्रौद्योगिकी</li> <li>19. भारतीय इतिहास लेखन में वामपंथी, दक्षिण पंथी वाद-विवाद</li> <li>संदर्भ ग्रंथ :</li> <li>(1) गोविन्द चन्द्र पांडे – इतिहास स्वरूप एवं सिद्धांत</li> <li>(2) केएल.खुराना, आर.के बंसल – इतिहास-लेखन, धारणाएं तथा पद्धतियां</li> <li>(3) प्रो. राधेशरण – इतिहास रवर्षन एवं सिद्धांत</li> <li>(5) कवर बहादुर कौशिक – इतिहास दर्शन एवं भारतीय-इतिहास लेखन</li> <li>(6) Gyanendra Pandey &amp; Subaltem Studies</li> <li>(7) ई. श्रीघरन – इतिहास लेख एक पादय पुस्तक 500 ई.पूरी 2000 तक</li> <li>(8) S.P.Sen - History &amp; Historiography in Modern India</li> <li>(9) Ranjit Guha - Subaltern Studies (All Volumes)</li> <li>(10) बी.के. श्रीवास्तव – इतिहास के सिद्धांत त्वरूप एवं इतिहास लेखन</li> <li>(11) हेरम्ब चतुर्यदी – मध्यकालीन इतिहासकार</li> <li>(12) R.C.Majumdar - Historiography of Modern India</li> </ul>	14 भारतीय इतिहास की विषय तस्त-सामाजिक-सांस्कृतिक दत्तिहा	ज्य		
<ul> <li>16. क्षेत्रीय इतिहास लेखन</li> <li>इकाई- 5</li> <li>17. भारतीय इतिहास की विषय वस्तुकृषक एवं श्रमिक</li> <li>18. भारतीय इतिहास की विषय वस्तुकृषक एवं श्रमिक</li> <li>19. भारतीय इतिहास की विषय वस्तुकृषक एवं श्रमिक</li> <li>20. भारतीय इतिहास की विषय वस्तुकृषक एवं श्रमिक</li> <li>20. भारतीय इतिहास लोखन में वाग्रग्रंथी, दक्षिण पंथी वाद-विवाद</li> <li>संदर्भ ग्रंथ :</li> <li>(1) गोविन्द यन्द्र पांडे – इतिहास लेखन में वाग्रग्रंथी, दक्षिण पंथी वाद-विवाद</li> <li>संदर्भ ग्रंथ :</li> <li>(2) के एल.खुराना, आर.के बंसल – इतिहास लेखन, धारणाएं तथा पद्धतियां</li> <li>(3) ग्रे. राधेगरण – इतिहास पद्धतियां इतिहास लेखन</li> <li>(4) क्रौलेखर राय – इतिहास दर्शन एवं भारतीय-इतिहास लेखन</li> <li>(5) कंवर बहादुर कौशिक – इतिहास दर्शन एवं भारतीय-इतिहास लेखन</li> <li>(6) Gyanendra Pandey &amp; Subaltem Studies</li> <li>(7) ई. श्रीधरन – इतिहास लेख एक पादय पुस्तक 500 ई.पूसे 2000 तक</li> <li>(8) S.P.Sen - History &amp; Historiography in Modern India</li> <li>(9) Ranjit Guha - Subaltern Studies (All Volumes)</li> <li>(10) बी.के. श्रीवास्तव – इतिहास के सिद्धांत स्वरूप एवं इतिहास लेखन</li> <li>(11) हेरम्ब चतुर्यदी – मध्यकालीन इतिहासकार</li> <li>(12) R.C.Majumdar - Historiography of Modern India</li> </ul>	15. जातीय एवं जनजातीय इतिहास	11.		
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<ul> <li>17. भारतीय इतिहास की विषय वस्तु-कृषक एवं असिक</li> <li>18. भारतीय इतिहास की विषय वस्तु-विज्ञान एवं प्रौद्योगिकी</li> <li>19. भारतीय इतिहास की विषय वस्तु-नाड़ी</li> <li>20. भारतीय इतिहास लेखन में वामप्रेथी, दक्षिण पंथी वाद-विवाद</li> <li>संदर्भ ग्रंथ :</li> <li>(1) गोविन्द चन्द्र पांडे – इतिहास स्वरूप एवं सिद्धांत</li> <li>(2) केएल.खुराना, आर.के.बंसल – इतिहास-लेखन, धारणाएं तथा पद्धतियां</li> <li>(3) प्रो. राधेशरण – इतिहास पद्धतियां इतिहास लेखन</li> <li>(4) कौलेखर राय – इतिहास दर्शन</li> <li>(5) कंवर बहादुर कौशिक – इतिहास दर्शन एवं भारतीय-इतिहास लेखन</li> <li>(6) Gyanendra Pandey &amp; Subaltem Studies</li> <li>(7) ई. श्रीधरन – इतिहास लेख एकं पाउय पुस्तक 500 ई.पूसे 2000 तक</li> <li>(8) S.P.Sen - Historiography in Modem India</li> <li>(9) Ranjit Guha - Subaltern Studies (All Volumes)</li> <li>(10) बी.के. श्रीवास्तव – इतिहास के सिद्धांत स्वरूप एवं इतिहास लेखन</li> <li>(11) हेरम्ब चतुर्वेदी – मध्यकालीन इतिहासकार</li> </ul>	इकाई— 5			
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संदर्भ ग्रंथ : (1) गोविन्द चन्द्र पांडे – इतिहास स्वरूप एवं सिद्धांत (2) के.एल.खुराना, आर.के.बंसल – इतिहास-लेखन, धारणाएं तथा पद्धतियां (3) प्रो. राधेशरण – इतिहास पद्धवियां इतिहास लेखन (4) कौलेश्वर राय – इतिहास दर्शन (5) कंवर बहादुर कौशिक – इतिहास दर्शन (6) Gyanendra Pandey & Subaltem Studies (7) ई. श्रीधरन – इतिहास लेख एक पाठ्य पुस्तक 500 ई.पूसे 2000 तक (8) S.P.Sen - History & Historiography in Modern India (9) Ranjit Guha - Subaltern Studies (All Volumes) (10) बी.के. श्रीवास्तव – इतिहास के सिद्धांत स्वरूप एवं इतिहास लेखन (11) हेरम्ब चतुर्वेदी – मध्यकालीन इतिहासकार (12) R.C.Majumdar - Historiography of Modern India	20. भारतीय इतिहास लेखन में वामपंथी, दक्षिण पंथी वाद–विवाद			
<ul> <li>(1) गोविन्द चन्द्र पांडे – इतिहास खरूप एवं सिद्धांत</li> <li>(2) के.एल.खुराना, आर.के.बंसल – इतिहास लेखन, धारणाएं तथा पद्धतियां</li> <li>(3) प्रो. राघेशरण – इतिहास पद्धतियां इतिहास लेखन</li> <li>(4) कौलेश्वर राय – इतिहास दर्शन</li> <li>(5) कंवर बहादुर कौशिक – इतिहास दर्शन एवं भारतीय–इतिहास लेखन</li> <li>(6) Gyanendra Pandey &amp; Subaltern Studies</li> <li>(7) ई. श्रीधरन – इतिहास लेख एक पाठ्य पुस्तक 500 ई.पूसे 2000 तक</li> <li>(8) S.P.Sen - History &amp; Historiography in Modern India</li> <li>(9) Ranjit Guha - Subaltern Studies (All Volumes)</li> <li>(10) बी.के. श्रीवास्तव – इतिहास के सिद्धांत स्वरूप एवं इतिहास लेखन</li> <li>(11) हेरम्ब चतुर्वेदी – मध्यकालीन इतिहासकार</li> <li>(12) R.C.Majumdar - Historiography of Modern India</li> </ul>	संदर्भ ग्रंथ :			
<ul> <li>(2) के.एल.खुराना, आर.के.बंसल – इतिहास-लेखन, धारणाएं तथा पद्धतियां</li> <li>(3) प्रो. राधेशरण – इतिहास पद्धतियां इतिहास लेखन</li> <li>(4) कोलेंश्वर राय – इतिहास दर्शन</li> <li>(5) कंवर बहादुर कौशिक – इतिहास दर्शन एवं भारतीय-इतिहास लेखन</li> <li>(6) Gyanendra Pandey &amp; Subaltern Studies</li> <li>(7) ई. श्रीधरन – इतिहास लेख एक पाठ्य पुस्तक 500 ई.पूसे 2000 तक</li> <li>(8) S.P.Sen - History &amp; Historiography in Modern India</li> <li>(9) Ranjit Guha - Subaltern Studies (All Volumes)</li> <li>(10) बी.के. श्रीवास्तव – इतिहास के सिद्धांत स्वरूप एवं इतिहास लेखन</li> <li>(11) हेरम्ब चतुर्वेदी – मध्यकालीन इतिहासकार</li> <li>(12) R.C.Majumdar - Historiography of Modern India</li> </ul>	(1) गोविन्द चन्द्र पांडे – इतिहास स्वरूप एवं सिद्धांत			
<ul> <li>(3) प्रा. राधशरण – इतिहास पद्धतियां इतिहास लेखन</li> <li>(4) कौलेश्वर राय – इतिहास दर्शन</li> <li>(5) कंवर बहादुर कौशिक – इतिहास दर्शन एवं भारतीय–इतिहास लेखन</li> <li>(6) Gyanendra Pandey &amp; Subaltem Studies</li> <li>(7) ई. श्रीधरन – इतिहास लेख एक पाठ्य पुस्तक 500 ई.पूसे 2000 तक</li> <li>(8) S.P.Sen - History &amp; Historiography in Modern India</li> <li>(9) Ranjit Guha - Subaltern Studies (All Volumes)</li> <li>(10) बी.के. श्रीवास्तव – इतिहास के सिद्धांत स्वरूप एवं इतिहास लेखन</li> <li>(11) हेरम्ब चतुर्वेदी – मध्यकालीन इतिहासकार</li> <li>(12) R.C.Majumdar - Historiography of Modern India</li> </ul>	(2) के.एल.खुराना, आर.के.बंसल — इतिहास—लेखन, धारणाएं तथा पद्धतियां			
<ul> <li>(4) कोलश्वर राय - डातहास दर्शन</li> <li>(5) कवर बहादुर कौशिक - इतिहास दर्शन एवं भारतीय-इतिहास लेखन</li> <li>(6) Gyanendra Pandey &amp; Subaltern Studies</li> <li>(7) ई. श्रीधरन - इतिहास लेख एक पाठ्य पुस्तक 500 ई.पूसे 2000 तक</li> <li>(8) S.P.Sen - History &amp; Historiography in Modern India</li> <li>(9) Ranjit Guha - Subaltern Studies (All Volumes)</li> <li>(10) बी.के. श्रीवास्तव - इतिहास के सिद्धांत स्वरूप एवं इतिहास लेखन</li> <li>(11) हेरम्ब चतुर्वेदी - मध्यकालीन इतिहासकार</li> <li>(12) R.C.Majumdar - Historiography of Modern India</li> </ul>	(3) प्रा. राधेशरण — इतिहास पद्धतियां इतिहास लेखन			
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(0) Gyanandia Pandey a Suballem Studies (7) ई. श्रीधरन – इतिहास लेख एक पाठ्य पुस्तक 500 ई.पूसे 2000 तक (8) S.P.Sen - History & Historiography in Modern India (9) Ranjit Guha - Subaltern Studies (All Volumes) (10) बी.के. श्रीवास्तव – इतिहास के सिद्धांत स्वरूप एवं इतिहास लेखन (11) हेरम्ब चतुर्वेदी – मध्यकालीन इतिहासकार (12) R.C.Majumdar - Historiography of Modern India	(२) कपर बहादुर काशिक – इतिहास देशने एवं मीरताय–इतिहास लखन (६) Gvanandra Bonday & Sybattam Studies			
(7) २. आवर्ष - शावरत राख रज नाउंच पुराख 300 इ.पूरा 2000 राष) (8) S.P.Sen - History & Historiography in Modern India (9) Ranjit Guha - Subaltern Studies (All Volumes) (10) बी.के. श्रीवास्तव — इतिहास के सिद्धांत स्वरूप एवं इतिहास लेखन (11) हेरम्ब चतुर्वेदी — मध्यकालीन इतिहासकार (12) R.C.Majumdar - Historiography of Modern India	(7) ई श्वीधरन — इतिहास लेख एक पाठा एकक 500 ई एसे 2000 तक			
(9) Ranjit Guha - Subaltern Studies (All Volumes) (10) बी.के. श्रीवास्तव — इतिहास के सिद्धांत स्वरूप एवं इतिहास लेखन (11) हेरम्ब चतुर्वेदी — मध्यकालीन इतिहासकार (12) R.C.Majumdar - Historiography of Modern India	(8) S.P.Sen - History & Historionranhy in Modern India			
(10) बी.के. श्रीवास्तव — इतिहास के सिद्धांत स्वरूप एवं इतिहास लेखन (11) हेरम्ब चतुर्वेदी — मध्यकालीन इतिहासकार (12) R.C.Majumdar - Historiography of Modern India	(9) Ranjit Guha - Subaltern Studies (All Volumes)			
(11) हेरम्ब चतुर्वेदी — मध्यकालीन इतिहासकार (12) R.C.Majumdar - Historiography of Modern India	(10) बी.के. श्रीवास्तव – इतिहास के सिद्धांत स्वरूप एवं इतिहास लेखन			
(12) R.C.Majumdar - Historiography of Modern India	(11) हेरम्ब चतुर्वेदी – मध्यकालीन इतिहासकार			·
	(12) R.C.Majumdar - Historiography of Modern India			

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## अटल बिहारी वाजपेयी बिश्वविद्यालय, बिलासपुर(छत्तीसगढ़)

सेमेस्टर पाठयकम एम.ए. इतिहास

Sec. 22. 22

- (13) बी. शेख अली हिस्ट्री इटस थ्योरी एंड मेथड
- (14) ए.आर. देसाई –Peasant strugales in India SEMESTER-II PAPER-II (COMPULSORY) CONTEMPORARY WORLD समकालीन विश्व
- হকার্হ-- 1
  - 1. जर्मनी में नाजीवाद का उदय-कारण
  - 2. हिटलर की गृह नीति
  - 3. हिटलर की विदेश नीति
  - जापान में सैन्यवाद
- इকাई— 2
  - द्वितीय विश्व युद्ध कारण एवं परिणाम
  - संयुक्त राष्ट्रसंघ उद्देश्य एवं संगठन
  - 7. संयुक्त राष्ट्रसंघ -- उपलब्धियां एवं योगदान
  - 8. निशस्त्रीकरण की समस्याएं

इকার্হ 3

- 9. चीमी क्रांति 1911
- 10. चीन में गृहयुद्ध एवं राष्ट्रवादी सरकार की स्थापना।
- 11. चीन में साम्यवादी सरकार का अभ्युदय।
- 12. हिन्द चीन एवं इंडोनेशिया में राष्ट्रीय आंदोलन

#### **ভকাৰ্ছ**--- 4

- 13. शीत युद्ध परिभाषा एवं स्वरूप
- 14. शीत युद्ध अंतर्राष्ट्रीय संधियां एवं तनाव
- 15. साम्यवादी रूस का विघटन कारण एवं परिणाम
- 16. एक ध्रुवीय विश्व

#### হকার্হ— 5

- 17. गुटनिरपेक्ष आंदोलन एवं भारत, पंचशील
- 18. अरब राष्ट्रवाद
- 19. आधुनिक तुर्की
- 20. अंतर्राष्ट्रीय समस्या फिलीस्तीन, कोरिया एवं वियतनाम

#### संदर्भ ग्रंथ :

- (1) दीनानाथ वर्मा आधुनिक विश्व का इतिहास
- (2) सत्यकेतु विद्यालंकार एशिया का इतिहास
- (3) के.एल.खुराना एवं शर्मा विश्व का इतिहास
- (4) देवेन्द्र सिंह चौहान --समकालीन युरोप
- (5) S.P. Nanda History of Modern World
- (6) सुरेश च द्र एवं शिवकुमार आधुनिक विश्व का इतिहास

## अटल बिहारी वाजपेयी विश्वविद्यालय, बिलासपुर(छत्तीसगढ़)

सेमेस्टर पाठ्यकम एम.ए. इतिहास

12.1

- (7) कालू राम शर्मा आधुनिक विश्व
- (8) ई.एच.कार दो विश्व युद्ध के बीच
- (9) जैन एवं माथुर विश्व का इतिहास
  - (10) D.G.E. Hall Soul Eon Asia
  - (11) B.V.E. Rao History of World
  - (12) Levender The Mieldle East
  - (13) A.C.Ray Contemporary World since 1919
  - (14) P.K. Chhatterjee Modern World
  - (15) D.C.Bhattacharya International relation in the 20th century
  - (16) अजय चंद्र बनर्जी माडर्न वर्ल्ड
  - (17) अर्जुन देव, इंदिरा अर्जुन देव समकालीन विश्व का इतिहास (1890-2008)
  - (18) बी.एन.लुणिया आधुनिक पाश्चात्य इतिहास की प्रमुख धाराएं (भाग-2)
  - (19) कौलेश्वर राय आधुनिक यूरोप (1789–1945)

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## अटल बिहारी वाजपेयी विश्वविद्यालय, बिलासपुर(छत्तीसगढ़) सेमेस्टर पाठ्यकम एम.ए. इतिहास

	SEMESTER-II PAREBUL(COMPULSORY) MODERN/CHHATTISGARH।आधुनिक छत्तीसगढ़		N. N
इक	ई— 1		
	1. ब्रिटिश सत्ता की स्थापना		
	2. ब्रिटिश कालीन प्रशासनिक व्यवस्था		•
	3. ब्रिटिश कालीन छत्तीसगढ़ की सामाजिक, सांस्कृतिक दशा		_
	4. छत्तीसगढ़ के रियासतों के प्रति ब्रिटिश नीति		
इक			
	5. 1857 का विप्लव — छत्तीसगढ़ में सिपाही विद्रीह		
	6. जमीदारी विद्रोह – वीरनारायण सिंह		
	7. बस्तर में आदिवासी विद्रोह - 1876 एवं 1910		
	8. छत्तासगढ़ में संष्ट्रीय आदीलन 1920 तक	· · · · · · · · · · · · · · · · · · ·	
इक	<b>ξ− 3</b> ,	1 1 T T T	
	9. छत्तासगढ़ म असहयाग आदालन		
	10. छत्तासगढ़ म सावनय अवज्ञा आद्यलन		
	11. छत्तासगढ़ म जगल सत्याग्रह		
	12. छत्तासगढ़ म व्यावतागत सत्याग्रह	The second s	
হণা		564 X 4.	
	15. फरसहागढ़ न जागप जाशाकुरू 16. फर्नीचगट में गिगायनों का बिंदीवीकरणा		
टका			•
સ્વય	१२ - २ १७ छनीजगढ में धार्मिक:ऑस्थ्रॉफें जेवी केंग्रीक ऑक्त जेन एवं बौद्ध धर्म		
	18. उसरी प्रमाद में कहीर एवं सतन्त्रमें प्रथ		
	19 छत्तीसगढ की लोक संस्कृति		
•	20 छत्तीसगढ राज्य निर्माण की पष्ठममि		
संद	में ग्रंथ :		
1.	किशोर अग्रवाल – बीसवीं शताब्दी का छत्तीसगढ		
2.	किशोर अग्रवाल – स्वातंत्र्योत्तर छत्तीसगढ	:	
3.	अरविंद शर्मा – छत्तीसगढ का इतिहास		
4.	तुषा शर्मा – छत्तीसगढ इतिहास, संस्कृति एवं परंपरा	· ·	
5.	अशोक शुक्ला – का रातनीतिक इतिहास	·. · ·	
6.	भगवान सिंह वर्मा –छत्तीसगढ़ का इतिहास		
7.	सुरेश चन्द्र –छत्तीसगढ़ का समग्र इतिहास		
8.	होँरालाल शुक्ला –छत्तीसगढ़ का इतिहास		
9.	दिनेश कुमार राठौर – कांकेर का इतिहास		
10.	ऋषिराज पांडेय – सारंगढ़ रियासत		



# अटल बिहारी वाजप्रेयी विश्वविद्यालय, बिलासपुर(छत्तीसगढ़) सेप्रेक्टर प्रावसकम रगए हतिहास

11. देवेश चौबे – मध्यप्रांत में छत्तीसगढ 12. रश्मि चौबे – राष्ट्रीय चेतना के विकास में छत्तीसगढ़ के साहित्यकारों का योगदान "पंडित संदयनपत्र प्रार्थ ने निर्भेष ने"
पुपरलाल रामा क विशेष म HAPERSIV ( Mobernet Grandstrass - A) Migina इंग्लैंड (1885 से 1956 तक)
इकाई- 1 1. ग्लैजस्टन
2. ग्लैंडस्टन — ग्रह गीमिश्रिय क्रमिक के क्रिकेट के किंद्र क
इकाइ— 2 4. सेलिसबरी— बिदेश मेलिस के किस के किस के किस के किस 5. चेम्बरलेन का साम्राज्यवाद 6. 1911 का समार अधिकिस्ता का करका जनवा स्वाप्त
7. इंग्लैंड की गृह नीति (1902-1914) इकाई- 3
8. इंग्लेड की बिदुरा नाल (1902–1814) 9. इंग्लैंड और पूती समझा (1878–1999) 10. प्रथम जिस्व कुछ में दलेड की सुनिम हमारान के कि स्थान 11. दो विस्क यहा के सीथ उग्लेड
इकाई– 4 12. विश्व आर्थिक मंदी और इंग्लैंड 13. अफ्रींका के विमाजन में इंग्लैंड की पुषिका 14. ग्रेट ब्रिटेन की गृह नीति (1919–1939
15. यट ब्रिटन का विदेश नाति (1919 1915) इकाई- 5 18. चेस्तुरवेन की तुष्ट्रविरुश की तीनि (1996 1939) 17. ब्रितीय विश्व युद्ध में इंग्लैंड की नियति 18. द्वितीय विश्व युद्ध के प्रसात इंग्लैंड की नियति 19. इंग्लैंड और शीत युद्ध
संदर्भ ग्रंथ : (1) एल.पी.शर्मा — इंग्लैंड का इतिहास (2) विद्याधर महाजन — इंग्लैंड का इतिहास
<ul> <li>(3) J.A.R. Marriott - Modern England</li> <li>(4) G.M. Trevelyan - Social History of England</li> <li>(5) अरूण कुमार मित्तल – इंग्लैंड का इतिहास</li> <li>(6) रमेश चंद्र सिन्हा – इंग्लैंड का इतिहास</li> <li>(7) Romony Multipublications (England (Compared England (Compared (Compare</li></ul>


## अटल बिहारी वाजपेयी विश्वविद्यालय, बिलासपुर (छत्तीसगढ़) सेमेस्टर पाठ्यकम एम.ए. इतिहास

SEMESTER-II 014100000 PAPER-IV (--B) HISTORY OF CHINA & JAPAN 1911-1950 चीन और जापान का इतिहास (1911 से 1950 तक)

### হকার্হ-- 1 1. चीनी गणराज्य 2. युवान-शिह-काई का शासन 3. चीन एवं प्रथम विश्व युद्ध 4. चीन में राष्ट्रवादी सरकार की स्थापना डकाई---2 नानकिंग की गणतंत्र (कुओमिंगतांग सरकार) जापान एवं प्रथम विश्व युद्ध 7. जापान का आधुनिकीकरण – कारण एवं प्रगति जापान में सैन्यवाद डकाई-- 3 9. जापान में साम्राज्यवाद 1932–1939 10. चीन में गृह युद्ध 11. चीन में राष्ट्रवादियों की पराजय 12. मंचूरिया संकट হকার্হ--- 4 13. चीन में साम्यवाद का उत्कर्ष 14. चीन में औद्योगिकीकरण 15. जापान एवं एंटिकोमिंटर्न पैक्ट 16. चीन--जापान में द्वितीय युद्ध इकाई— 5 17. चीन एवं द्वितीय विश्व युद्ध 18. द्वितीय विश्व युद्ध में जापान का प्रवेश 19. चीन में साम्यवादी सरकार 20. द्वितीय विश्व युद्ध में जापान के पराजय का कारण संदर्भ ग्रंथ : (1) बिनाके – सुदूरपूर्व का इतिहास (2) सत्यकेतु विद्यालंकार – एशिया का इतिहास (3) दीनानाथ वर्मा --- एशिया का इतिहास (4) क्लाउड – सुदूरपूर्व का इतिहास (5) के.एल.खुराना – एशिया का आधुनिक इतिहास (6) बुस – द फार ईस्ट

- (7) A.C. Gupta A History of China
- (8) F.H.B. Clyde The Far East

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(9) Goodridge - A Short History of Far East

the state of the second second second SEMESTER-ILOPHiond PAPER IV ( WOMENIN MODERN INDIA अाधनिक सारत में जारी इकार्ड— १ 1. औपनिवेशिक काल में नारी शिक्षा 2. पुनर्जागरण आदोलन और महिलाएं 3. उन्नीसवीं शताब्दी के नारी संगठन 3. उग्नासमा रापाल्क न 4. बीसवीं शताब्दी के नारी संगठन डकार्ड— 2 5. भारतीय स्वतंत्रता आंदोलन और महिलाएं, 1857 की क्रांति 6. भारतीय स्वतंत्रता आंदोलन और महलाए, गांधीबादी आदोलन 7. भारतीय खतंत्रता आंदोलन और महिलाएं, झांसिकारी आसीलन 8. भारतीय स्वतंत्रता आदोलन और महिलाए, आजाद हिंद फीज হ্ৰকাৰ্হ— 3 9. स्वतंत्रला के पश्चात् राजनीति और महिलाएं- पंचायत 10. स्वतंत्रता के पश्चात् राजनीति और महलाए विधनिसमा से संसद तक 11. मताधिकार और महिलाएं 12. पंचवर्षीय योजनाएं और महिलाएं डकार्ड— ४ 13. भारतीय संविधान में महिलाओं की स्थिति 14. स्वतं त्रोत्तर भारत में महिलाओं की वैधानिक स्थिति 15. जनजातीय समाज में महिलाओं की स्थिति 16. महिलाओं के प्रति हिंसा एवं अपराध হকার্ড— 5 17. महिलाएं – कला एवं साहित्य के क्षेत्र में 18. मानवाधिकार एवं महिलाएं 19. स्वतंत्रोत्तर भारत में महिला शिक्षा 20. काम काजी महिलाएं - स्वावलंबन एवं संशक्तिकरण संदर्भ ग्रंथ : (1) कमलेश्वर प्रसाद - भारत का इतिहास खंड 1, 2, 3 (2) सुगम आनंद - भारतीय इतिहास में नारी (3) विपिन चंद्र - आजादी के बाद का भारत (4) पुरी, दास, चोपड़ा – भारत का सामाजिक, आर्थिक, सांस्कृतिक इतिहास (खंड तीन) (5) प्रताप सिंह – आधुनिक भारत का सामाजिक, आर्थिक इतिहास (6) आनंद मूर्ति – भारतीय इतिहास में नारी (7) गोपा जोशी – भारत में स्त्री असमानता (8) नीत् केंग - इंडियन वीमेन एक्टीविस्ट (9) सी.एन.मंगल, यशोदा भट्ट – बीयांड द थ्रेस होल्ड-इंडियन वीमेन ऑन द मूव

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(10) सधा गोस्वामी – भारत की चर्चित महिलाएं
(11) कौरोलिय एम बायली और कारेन रास - महिलायें और संचार माध्यम
(12) साधना आर्य, नवोदिता मेनन आदि (संपादक) – नारीवादी राजनीति संघर्ष एवं मुद्दे
(13) यशोदा भट्ट - वीमेन इन इंडिया इन फिफ्टी इयर्स ऑफ इंडिप्रेंडेंस
(14) वृंदा करात – भारतीय नारी संसर्भ और मुस्ति
SEMESTER-III
PAPER-I
खण्ड-अ मध्यकालीन भारत (Section A Medieval India)
सल्तनतकालीन भारतीय राजनय एवं अर्थव्यवस्था (1200 से 1526 ई.)
(INDIAN POLITY AND ECONOMY IN SULTANATE PERIOD (1200-1526 A.D.)
इकाई— 1
1. सल्तनत कालीन इतिहास के सति
2. दिल्ली सल्तनत को स्थापना एवं प्रसार
3. सल्तनत कालीन इतिहास लेखन – विभिन्न विचारधाराए
4. सल्तनत कालीन राज्य का स्वरूप एवं सिद्धात
इकाई— 2
5. सल्तनत कालीन केन्द्रीय प्रशासन
<ol> <li>सल्तनत कालीन प्रातीय व्यवस्था-इक्ता</li> </ol>
7. अलाउद्दीन खिलजी की आर्थिक नीति-बाजार नियत्रण
<ol> <li>अलाउदीन खिलजी की विजय–उत्तर भारत, दाक्षण भारत</li> </ol>
इकाई— 3
9. मुहम्मद बिन तुगलक की योजनाएँ
10. फिरोजशाह तुगलक का प्रशासन
11. सल्तनतकालीन क्षेत्रीय राज्य - उत्तर भारत
12. सल्तनतकालीन क्षेत्रीय राज्य – दक्षिण भारत
इकाई 4
13. सल्तनतकालीन भूराजस्व व्यवस्था
14. सल्तनतकालीन शिल्पू व उद्योग
15. सल्तनतकालीन आंतरिक व्यापार
16. सल्तनतकालीन विदेशी व्यापार
इकाई— 5
17. तैमूर का आक्रमण एवं प्रभाव
18. सल्तनत काल में नगरों का उदय
19. सल्तनत कालीन मुद्राएँ एवं बैंकिंग
20. सल्तनत कालीन कृषि एवं उद्योग
संदर्भ ग्रंथ :
(1) हरिशचंद्र वर्मा – मध्यकालीन भारत भाग – 1
(2) ए.एल. श्रीवास्तव – सल्तनतकालीन भारत
(3) विपिन बिहारी सिन्हा – मध्यकालीन भारत
(4) बी.एन. लूणिया – पूर्व मध्यकालीन भारत
(5) इरफान हबीब सल्तनतकालीन भारत
(6) एल.पी. शर्मा – मध्यकालीन भारत



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(7) हेरम्ब चतुर्वेदी – मध्यकालीन इतिहासकार (8) सतीश चंद्र – मध्यकालीन भारत–राजनीति, समाज और संस्कृति–आठवीं से सन्नहवीं सदीं तक 14 14 12 1. SEMESTER-III PAPER-II खण्ड-अ मध्यकालीन भारत (Section -A Medieval India) सल्तजतकालीन समाज एवं संस्कृति (1200 से 1526 ई. तक) (SOCIETY AND CULTURE IN SULTANATE PERIOD (1200-1526 A.D.) डकाई— 1 الوالقفار الماديكة ميقط شششا ولوالا فالقطوات 1. सल्तनत कालीन समाज - संरचना एवं परिवर्तन 2. सल्तनत कालीन नगरीय समाज – नये सामाजिक वर्गों का उदय 3. सल्तनत कालीन हिन्दू समाज 4. सल्तनत कालीन मुस्लिम समाज डकाई– 2 5. भक्ति आंदोलन – उदय के लिए उत्तरदायी तत्व सगुण भवित्त की विशेषताएं 7. कृष्ण भक्ति शाखा 8. राम भक्ति शाखा इकाई— 3 9. निर्मुण भक्ति सम्बदाय - कबीर और नानक 10. भवित आंदोलन की क्षेत्रीय विशेषताएं 11. भनित आंदोलन की भारतीय समाज एवं संस्कृति पर प्रभाव 12. भवित आंदोलन का साहित्य पर प्रभाव इकाई— 4 13. सूफीवाद 14. प्रमुख सूफी सिलसिलें और उनकी विशेषताएं 15. इण्डो-इस्लामिक संस्कृति का उदय एवं विकास 16. सल्तनत कालीन विज्ञान एवं तकनीकी শ্বকার্ছ— 5 17. सल्तनत कालीन स्थापत्य कला 18. सल्तनत कालीन क्षेत्रीय स्थापत्य कला 19. सल्तनत काल में साहित्य का विकास संदर्भ ग्रंथ : (1) बी.के. पंजाबी - मध्यकालीन भारतीय इतिहास (2) हरिशचंद्र वर्मा ---- मध्यका<del>लीन भारत भाग--</del>1 (3) रामधारी सिंह दिनकर – संस्कृति के चार अध्याय (4) बी.एन. लूणिया - पूर्व मध्यकालीन मारत (5) विपिन बिहारी सिन्हा – मध्यकालीन भारत (6) प्रताप सिंह - मध्यकालीन संस्कृति (7) राजबली सिंह - सुफीवाद (8) एल.पी. शर्मा – मध्यकालीन भारत (9) ए.एल. श्रीवास्तव - मध्यकालीन संस्कृति

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(10) पुरी, दास, चोपड़ा (भाग–2) – भारत का सामाजिक, आर्थिक एवं सांस्कृतिक इतिहास

## SEMESTER-III PAPER-I

खण्ड—ब आधुनिक भारत (Section -B Modern India) आधुनिक भारत (1757 ई. से 1857 ई. तंक) राजनीतिक, प्रशासनिक (MODERN INDIA 1757 A.D. TO 1857 A.D.) POLITICAL, ADMINISTRATIVE)

इकाई— 1

- 1. आधुनिक भारतीय इतिहास के स्रोत
- 2. आधुनिक भारतीय इतिहास लेखन की विचारधाराएं-साम्राज्यवादी राष्ट्रवादी
- 3. आधुनिक भारतीय इतिहास लेखन की विचारधाराएं--मार्क्सवादी, जनवादी
- 4. पूर्व औपनिवेशिक भारत की राजनीतिक व्यवस्था

इकाई— 2

- 5. भारत में यूरोपियों का आगमन
- 6. कर्नाटक में आंग्ल-फ्रांसीसी प्रतिस्पर्द्धा
- बंगाल में अंग्रेजी शक्ति का उदय
- 8. ब्रिटिश साम्राज्य का विस्तार-नीतियां तथा कार्यक्रम

इकाई– 3

- 9. आंग्ल- मैसूर संबंध
- 10. आंग्ल– मराठा संबंध
- 11. आंग्ल-अंफगान संबंध
- 12. आंग्ल– सिक्ख संबंध

### इकाई— 4

- 13. आंग्ल– अवध संबंध
- 14. भारत की औपनिवेशिक संरचना--प्रशासनिक स्वरूप
- 15. संवैधानिक विकास -- 1773--1784
- 16. संवैधानिक विकास 1784-1854

#### इकाई— 5

- 17. कंपनी एवं रियासतों के संबंध
- 18. कंपनी प्रशासन के अंतर्गत पुलिस, लोकसेवा एवं न्याय व्यवस्था
- 19. उपनिवेशवाद का प्रतिरोध—जनजातीय व कृषक आंदोलन
- 20. 1857 की क्रांति–विचारधाराएं, कारण, स्वरूप एवं महत्व

### संदर्भ ग्रंथ :

(1) एल.पी. शर्मा	– आधुनिक भारत
(2) रजनीपाम दत्त	– इंडिया टुडे
(3) प्रताप सिंह	– आधुनिक भारत का इतिहास



## सेमेस्टर पाठ्यकम एम.ए. इतिहास

(4) एम.एस. जैन - आधुनिक भारत (5) सुमित सरकार – आधुनिक भारत का इतिहास (6) बी.एल. ग्रोवर एवं यशपाल – आधुनिक भारत का इतिहास (7) एग्नेस ठाकुर – भारत का इतिहास 1757–1857 (8) वीरकेश्वर प्रसाद सिंह – भारतीय राष्ट्रीय आंदोलन एवं संवैधानिक विकास (9) एस.आर. शर्मा - मेकिंग आफ मार्डन इंडिया (10) बी.बी. सिश्च - सेंट्रल एडमिनिस्ट्रेशन आफ ईस्ट इंडिया कंपनी – प्लासी से विभाजन तक (11) शेखर बंधोपाध्याय (12) विपिन चंद्रा – आधुनिक भारत का इतिहास -- मार्डन इंडियन हिस्ट्री फ्राम 1707 टू प्रजेन्ट डे (13) वी.डी. महाजन (14) के.सी. चौधरी – हिस्ट्री आफ मार्डन इंडिया (15) कौलेश्वर राय - आधुनिक भारत 1757-1950



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## SEMESTER-III PAPER-II खण्ड-ৰ আधुनिक भारत (Section -B Modern India) आर्थिक, सामाजिक, सांस्कृतिक (1757 ई. से 1857ई. तक) (ECONOMIC, SOCIAL, CULTURAL 1757 A.D TO 1857 A.D.) डकाई— 1. पूर्व औपनिवेशिक भारत की आर्थिक व्यवस्था 2. यूरोपीय वाणिज्यबाद का उद्धर 3. अंग्रेजों की व्यापारिक, वाणिज्यिक नीति 4. कृषि का वाणिज़्बीकरण डकाडे-5. ग्रामीण अर्थव्यवस्था - कृषि की स्थिति एवं समस्याएं 6. नबीन भूराजस्व व्यवस्था - स्थाई बंदोबस्त तक 7. नवीन भूराजस्व व्यवस्था- रैयतवाड़ी, महालवाड़ी 8. ग्रामीण ऋण ग्रस्तता, अकाल नीति डकाई— 3 9. शहरी अर्थव्यवस्था– हस्तशिल्प, उद्योगोंकी स्थिति 10. औद्योगीकरण 1757-1857 11. आंतरिक बाजार और शहरी केन्द्र, विदेश व्यापार 12. धन का निष्कासन হুকাई— 4 13. पूर्व औपनिवेशिक भारत की सामाजिक एवं सांस्कृतिक व्यवस्था 14. भारतीय पुनर्जागरण 15. समन्वयवादी समाज सुधार आंदोलन-बंगाल एवं महाराष्ट्र के संदर्भ में 16. सामाजिक सुधार शासन द्वारा किये गए सुधार कार्य डकाई 5 17. प्रतिक्रियावाद – बहावी आंदोलन 18. नवीन सामाजिक वर्गों का उदय 19. शिक्षा का विकास

20. भारतीय प्रेस (1857 तक)

संदर्भ ग्रंथ :

सेमेस्टर पाठ्यकम एम.ए. इतिहास

– आधुनिक राष्ट्रवाद की सामाजिक पृष्ठभूमि

– आधुनिक भारत का इतिहास एवं नवीन मूल्याकेन (1707–1969)

– आधनिक भारत

– इंडिया टुडे

- (1) एल.पी. शर्मा
  (2) ए.आर. देसाई
  (3) रजनी पामदत्त
  (4) ग्रीवर एवं यशपाल
- (5) एस.आर. शर्मा
  (6) प्रताप सिंह
  (7) एम.एस. जीव
  (8) एस.पी. नामफ, इ
  (9) S.P. Narain
  (10) V.A. Narain
  (11) एग्नेस ठाकुर
  (12) पुरी, दाझ, चोपडा
  (13) अलग भइटाचर्म
  (14) नीकांड आर्डी
- (15) सार सी. मजुमदार एव एच सी. राय (16) कोलेस्टर राय
- आधुतिक भारत का इतिहास.
   सोशल एंड इकॉनामिक हिस्ट्री ओफ मॉडर्न इंडिया
   Economic and Social History of Modern India
   Social History of Modern India

– मेकिंग आफ मार्डन इंडिया

– आधुनिक भारत–1, खंड–3

- भारत का आर्थिक इतिहास (1757–1950)
- भारत का सामाजिक आर्थिक एव सांस्वातिक इतिहास
- हिस्ट्री आफ मार्ड्न इंडिया (1757-1947)
- एडवांस हिस्ट्री ऑफ इंडिंगा
   ऐन एडवांश हिस्ट्री ऑफ इंडिंगा
  - ९न एखवारा हिस्ट्रा आफ्र झड्या
- अधिनिक भारत 1757-1950

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सेमेस्टर पाठ्यकम एम.ए. इतिहास

## SEMESTER-III

### OPTIONAL - I

भारतीय राष्ट्रीय आंदोलन का इतिहास (1857ई. से 1922ई. तक) (HISTORY OF NATIONAL MOVEMENT (1857 TO 1922 A.D.)

### হকার্হ— 1

- 1. 1857 के विप्लव के कारण
- 2. 1857 के विप्लव का स्वरूप एवं परिणाम
- 3. भारत में राष्ट्रवाद की वैचारिक पष्ठभमि
- 4. कांग्रेस की स्थापना के पूर्व राजनीतिक संगठन

### হকাई-- 🖇

- भारतीय राष्ट्रीय कांग्रेस की स्थापना अवधारणाएं एवं उद्देश्य
- 6. कांग्रेस का नरमपंथी युग विचारधारा एवं कार्यक्रम
- 7. कांग्रेस में उग्रवाद का उदय विचारधारा एवं कार्यक्रम
- 8. नरमपंथी— उग्रवाद संघर्ष

### ইকার্হ— 3

- 9. बंग—भंग एवं स्वदेशी आंदोलन
- 10. साम्प्रदायिक राजनीति का उदय, मुस्लिम लीग
- 11. लखनऊ समझौता
- 12. होमरूल आंदोलन

### হকাई– 4

- 13. गांधीजी का भारतीय राजनीति में प्रवेश एवं उनके नेतृत्व में प्रारंभिक आंदोलन
- 14. रोलेक्ट एक्ट
- 15. जलियावाला बाग हत्याकांड और उसका प्रभाव
- 16. हण्टर कमीशन रिपोर्ट

### হকার্হ— 5

- 17. 1919 के अधिनियम
- 18. क्रांतिकारी आंदोलन-प्रथम चरण-महाराष्ट्र, बंगाल, पंजाब एवं अन्य क्षेत्र
- 19. असहयोग आंदोलन
- 20. असहयोग आंदोलन का भारतीय राजनीति पर प्रमाव

### संदर्भ ग्रंथ :

_ <u>(1) दारा</u> चद	
(2) सुमित सरकार	– आधुनिक भारत
(3) पं.सुंदरलाल शर्मा	- भारत में अंग्रेजी राज
(4) डॉ. आमा सक्सेना	– इंडियन नेशनल मूवमेंट एंड द लिबरलस
(5) ए.आर. देसाई	- भारतीय राष्ट्रवाद की सामाजिक पृष्ठभूमि
(6) शर्मा एवं शर्मा	- भारतीय राष्ट्रीय आंदोलन एवं राजनैतिक विकास
	0

(7) कालश्वर राय – फ्रीडम स्ट्रगल



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## एम.ए. इतिहास

- (8) विपिन चन्द्र
- भारतीय स्वतंत्रता संग्राम का इतिहास
- (9) बीरकेश्वर प्रसाद सिंह –
- भारतीय राष्ट्रीय आंदोलन एवं संवैधानिक विकास
   आधुनिक भारत का इतिहास
   द पार्टीशन ऑफ बंगाल
- (10) रामलखन शुक्ला (11) विनोद कुमार सक्सेना
  - गर सक्सेना द पॉर्टीश
- (12) के.पी. बहादुर
- (13) योगेन्द्र श्रीवास्तव
- (14) यशपाल एवं ग्रोवर
- (15) कौलेश्वर राय
- हिस्ट्री ऑफ फ्रीडम मूवमेंट इन इंडिया
  हिस्ट्री ऑफ फ्रीडम मूवमेंट 1857-1947
- आधुनिक भारत का इतिहास
- आधुनिक भारत 1757-1950

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सेमेस्टर पाठ्यकम एम.ए. इतिहास

## SEMESTER-III

### **OPTIONAL - II**

भारत का सांस्कृतिक इतिहास (प्रारंभ से 1526 ई. तक)

(CULTURAL HISTORY OF INDIA (BEGINING TO 1526 A.D.)

### হ্বকাई--- 1

1. हड़प्पाकालीन सामाजिक एवं आर्थिक जीवन

2. हड़प्पाकालीन कला एवं स्थापत्य कला

3. आयों का मूल तिवास संबंधी अवधारणाएं

4. आर्यों का भारत में प्रसार

### इकाई- 2

5. ऋग्वेद कालीन समाज एवं संस्कृति

6. उत्तरवैदिक कालीन समाज एवं संस्कृति

7. वेद, उपनिषद, सूत्र, स्मृतिग्रंथ 8. महाकाव्य युगीन संस्कृति

### इकाई– 3

9. महाजनपद कालीन समाज एवं संस्कृति

10. जैन धर्म, बौद्ध धर्म

11. मौर्यकालीन समाज एवं संस्कृति

12. भारतीय संस्कृति में अशोक का योगदान

### इकाई– 4

13. गुप्तकालीन समाज एवं धर्म

14. गुप्तकालीन कला विज्ञान एवं साहित्य

15. राजपूत कालीन समाज

16. राजपूत कालीन कला एवं स्थापत्य

### इकाई– 5

17. सल्तनत कालीन समाज

18. सल्तनतकालीन संस्कृति की विशेषताएं

19. भक्ति आंदोलन

20. सूफी आंदोलन

### संदर्भ ग्रंथ :

(1) रामशरण शर्मा

– प्राचीन भारत

(2) विमल चन्द्र पाण्डेय – प्राचीन भारत का राजनीतिक, सांस्कृतिक इतिहास

- दक्षिण भारत का इतिहास

- मध्यकालीन भारतीय संस्कृति

- (3) रोमिला थापर
- अशोक तथा मौर्य साम्राज्य का पतन

– अद्भुत भारत

– सिंधु सभ्यता

- (4) के.एन. शास्त्री
- (5) ए.एल. बाशम
- (6) भारद्वाज
- (7) जयनारायण पांडे
- (8) के.सी. श्रीवास्तव
- प्राचीन भारत का इतिहास तथा संस्कृति

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- (9) शिवशंकर शर्मा (10) नीरज श्रीवास्तव
- भारतीय संस्कृति
- मध्यकालीन भारत–प्रशासन, समाज एवं संस्कृति
- (11) रामशरण शर्मा
- (12) कृष्ण मोहन श्रीमाली
- (13) रमेन्द्र नाथ नदी
- (14) राधाकुमुद मुखर्जी
- (15) बी.एन. लूणिया
- (16) राजबली
- प्राचीन भारत में धर्म के सामाजिक आधार
- हिन्दू सभ्यता
- प्राचीन भारतीय संस्कृति

- प्रारंभिक भारत का परिचय

- धर्म, समाज एवं संस्कृति

– सूफीवाद

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	SEMESTER-III OPTIONAL - III भारतीय संदिधान और शासन व्यवस्था INDIAN CONSTITUTION AND ADMINISTRATIVE SYSTEM	
दकार्द_	1	
~~~~~	ग 1 भारत की संविधान सभा का गठन	
	2 भारत का संविधा सभ्य की विभिन्न अमिनियाँ	
	२ भारतीय स विधान की प्रश्नातना	
	अ भारतीय स्म तिधान की प्रमुख तिष्ठोषतापं	
रकार्र		
<b>A</b> 31.1 <b>A</b>	<ol> <li>भारतीय संविधान के स्रोत</li> </ol>	
	6 मौलिक अधिकार एवं संवैधानिक जपत्रार	
	7 नीति निर्देशक तन	
	८ मौलिक कर्तवा	
दकाई	3	
<b>4</b> * 14	् ९ राष्ट्रपति—निर्वाचन <b>शक्तियाँ</b> एवं कर्तव्य	
	ः उन्द्रास राग्य स्थानसम्बद्ध वयरञ्च १० स्टब्स्ट्राइन्प्रति—मिर्ताचन अभिन्याँ एतं कर्तव्य	
	11 प्रधानमंत्री एतं मंत्रि प्रशिषद तथा उत्सके कार्य	
	12 संसद का गढन राज्य संभा एवं लोक सभा	
दकाई-		
4414	- 13 संतिभान संशोधन प्रतिमा एवं प्रयुख संशोधन	
	14 आणत त्वात्वीन जगवंध	
	म्हार्ग्यायादी 15 महारगायादी	
	16 निरायक एवं महालेखा प्रशिक्षक	
डकाई—	5	
****	17 सर्वोच्च न्यागलय	
	18 संघ लोक सेवा आयोग निर्वाचन आयोग	
	19 नीति आयोग एवं राष्ट्रीय विकास वरिषद	
	20. वित्त आयोग	
संदर्भ ग्रं	<b>vu:</b>	
(1) ভী.ৰ্ভ	डी. बसु – भारत का संविधान एक परिचय	
(2) हिर	मोहन जैन – भारतीय शासन और राजनीति	
(3) सुशी	ोला कौशिक – भारतीय शासन और राजनीति	
ं (4) सुभा	ाष कश्यप 💫 🗕 हमारा संविधान	• •
(5) R.C	Agrawal - Indian Political System	
(6) A.G	G. Noorani Constitutional Question in India	
(7) A. S	S. Narang . Indian Government and Politics	
a) G (	Austin . The Indian Constitution	

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	TOURISM THEORY
	Source and the second
· .	1. पर्यटन का अर्थ एवं परिभाषा
	2. पर्यटन की अवधारणा
	3. पर्यटन का उद्देश्य एवं महत्व
-	4. पर्यटन के सिद्धान्त एवं व्यवहार
	इकाई— 2
	5. पर्यटन संगठन
·	े6. भारतीय पर्यटन संगठन केन्द्रीय
	7. प्रान्तीय पर्यटन विभाग
	<b>stanté— 3</b> marine de la constante de la consta
	8. ट्रैवल एजेंसी गठन
	9. ट्रैक्ल एजेंसी— कार्य
	10. पर्यटन एवं यातायात
· ·· · · · _ · · · · · · · ·	ात हो थे। <b>11. टिकट एव</b> ं आरक्षण कार्य कार्यकार के प्रारंग के प्
	्र <b>इकाई- 4</b>
•	12. पर्यटन एवं आवास तथा होटल उच्चोंग मुद्ध विभिन्नय
	13. अंतर्राष्ट्रीय पर्यटन – पासपोर्ट, वीसा विदेशी संबंधी नियम
	14. अंतर्राष्ट्रीय पर्यटन सुविधाएं एवं समस्याएं
	<b>storist – 5</b>
	15. पर्यटन एवं हस्तशिल्प उद्योग
	16. पर्यटन एवं कला
	17. पर्यटन एवं लोक संस्कृति
	18. पर्यटन एवं मेले त्यौहार
•.	संदर्भ ग्रंथ :
	(1) जगमोहन नेगी – पर्यटन एवं यात्रा के सिद्धांत
	(2) जगमोहन नगी – पर्यटन एवं मार्केटिंग तथा विकास
	(3) के.के. दीक्षित - पर्यटन के विविध आयाम
	(4) ताज राव — पर्यटन विकास के विविध आयाम
	(5) ताज राव - पर्यटन का प्रभाव एवं प्रबंधन
	(6) ए.के. भाटिया – टरिज्म डेवलेपमेंट प्रिंसिपल एंड प्रैक्टिसेज
	(7) राम आचार्य – टरिज्म इन इंडिया
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SEMESTER-IV
(b) RAPER-I
(역동 A HELOPENIN HING) (Section - B Medieval India)
(INDIAN POLITIY AND ECONOMY IN MUGHAL PERIOD (1526-1750 A.D.)
ETATION CONTRACTOR CON
1. मुगलकालान इतिहास क स्रात
2. मुगलकालान इतिहास लखन – विमिन्न अवस्थित के विद्यांत
३. गुगलवगलाग राज्यस्य — दयाय आवश्यार पग तास्ताल ४ प्रमान प्रायस्य सी. गासन्य सीनि
5. मगलकालीन केन्द्रीय प्रशासन
6. मुगलकालीन प्रांतीय प्रशासन विशेषताएं
7. मरासंब एव जाशीर के कि
8. शेरशाह का प्रश्नासन
<b>sons-3</b>
9. मुगलकालीन दरबारी राजनीति एव संघष
11. HRIDI RIGE DE REINHERE HORDER
13 मगलकालीन कारी अध्यक्षत्रथा एव अ-राजस्त
14. मंगलकाल में सिल्प उद्योग
15. मुगलकालीन आतारक व्यापार
16. मुगलकालीन विदेशी खाँपार
e <b>sais- 5</b>
17. मुगलकॉल में मगेरों का उदय—नगरीय प्रशासन
18. मुगलकालीन मुद्रा एवं बीकेंग
19. नए व्यापारक तगा का उदय
20. मुगल काल म कृष एक जुझाम म तक्रमका आश्वतम
र्यात्रणी संघर •
राष्य प्रथः
2 सर जदनाथ सरकार - शिर्धाजी एँड हिंज टॉर्डरस
3. ए.एल. श्रीवास्तव — मुगलकालीन भारत
4. बी.एन. लुनिया – मुँगल साम्राज्य का उत्कर्ष
5. बी.के. पंजाबी – मुझ्यकालीन भारत का इतिहास
6. हेरम्ब चतुर्वेदी – मुगलकालीन इतिहासकार
7. हेरम्ब चतुर्वेदी – मुगलकालीन राजनय एवं अर्थव्यवस्था
<ol> <li>पी.पी. सिन्हा – मध्यकालीन भारत</li> </ol>

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	PAPER-II
	(खड अ मध्यकालीन भारत) (Section A medieval India)
	मुगलकालान भारतीय समाज एव संस्कृति (1526 से 1750 ई. तक) (SOCIETY AND CULTURE IN MUGHAL PERIOD (1526-1750 A.D.)
इक	
	1. नुगलकालान हिन्दू समाज १. गणनकानीय प्रतिनाम सम्मन
	2. पुगलफालान नुरलम समाज 3. मगलकालीन अमाज में भाजक तम की भूमिका
	उ. नुगलकाल में किन्गों की ट्रांग
डक	
•	6. मंगलंकालीन क्षेत्रीय स्थापत्व कला
	7. मगलकालीन चित्रकला
	8. क्षेत्रीय चित्रकला का बिकास
इक	<b>I</b> ई— 3
	9. फारसी भाषा एवं साहित्य का विकास
	10. हिन्दी साहित्य का विकास
	11. संस्कृत साहित्य का विकास
	12. उर्दू भाषा एवं साहित्य का विकास
इक	
	13. मुगलकाल में समन्वयवादी संस्कृति का विकास
	14. मुगलकाल में संस्कृति के बिकास में अकेंबर का योगदान
	15. समन्वयवादी संस्कृति का विघटन और औरमजेब
	16. मुगलकाल में नृत्य एवं संगीतकला का विकास
হকা	
	17. मुगलकाल में धार्मिक आदोलन
	18. सामता व्यवस्था का समाज पर प्रभाव
	19. मराठा संस्कृति का विशेषताए
	20. मुगलकाल म इसाइ धम का आगमन
र्यंतन	f zior.
1 3	। अस्य - एर्जीताटी ज्याद्य शीनगालन
1. V 2 2	u < u < u < u < u < u < u < u < u < u <
. २.६ . २.ह	रराज प्र पणा — नव्यकालान सारत — 2
۵.۹ ۵ آ	गण प्राणम् – पुपरा प्राप्नाप्य का उत्पन्न एल श्रीवास्तव – मध्यकान्दीन संस्कृति
5 6	देनेश चन्द्र भारटाज — मध्यकालीन संस्कृति
6 9	रीदास एवं चोपडा — भारत का सामाजिक ज्यांक्कनिक गर्न आर्थिक स्तिसाय भाग क
ני~ סיי	ल.पी. शर्मा — मध्यकात्मेन भारत ल.पी. शर्मा — मध्यकात्मेन भारत
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सेमेस्टर पाठ्यकम एम.ए. इतिहास

#### SEMESTER-IV PAPER-I ند من المعند (عند معند من المعند من المعن आधुनिक भारत (1858 से 1964 ई. तक) राजनीतिक, प्रशासनिक (MODERN INDIA 1858 A.D. TO 1964 A.D. (POLITICAL, ADMINISTRATIVE) डकाई— 1 1. प्रशासनिक परिवर्तन – सवैधानिक सुधारों के संदर्भ में (1858–1892) 2. प्रशासनिक परिवर्तन - संवैधानिक सुधारों के संदर्भ में (1909-1919) 3. प्रशासनिक परिवर्तन – संवैधानिक सुधारों के संदर्भ में (1935-1947) 4. भारतीय गणतंत्र का स विधान डकार्ड— 2 5. प्रशासनिकढ़ाचा - स्थानीय स्वाशासन के संदर्भ में 6. प्रशासनिकढाचा - लोकसेवा के संदर्भ में 7. प्रशासनिकदाचा – न्याय व्यवस्था के संदर्भ में 8. प्रशासनिकढाचा – पुलिस प्रशासन के संदर्भ में 👘 👘 👘 डकाई--- 3 3.75 6.87 9. पड़ोसी राज्यों से संबंध – अफगानिस्तान एवं फ्रांरस के संदर्भ में 10.पड़ोसी राज्यों से संबंध - नेपाल एवं बर्मा के संदर्भ में 11.देशी रियासतों के साथ संबंध - नीतिगत विस्तार 12 रियासतों का भारतीय संघ में विलीनीकरण হকার্র--- 4 13. भारतीय राष्ट्रवाद का उदय - अवधारणाष्ट्रं एवं मतिविधिया 14. 1919 तक संगठित राष्ट्रवाद की प्रवृत्तियां 15. कृषक, श्रमिक एवं क्रांतिकारी आंदोलन 16. गांधीवादी आंदोलन – विचारधास, स्वरूप एवं कार्यक्रम डकाई-- 5 17. साम्प्रदायिकता का उदय एवं विकास - मुस्लिम लीग की स्थापना तक 18. साम्प्रदायिकता का विकास - भारत विमाजन तक 19. स्वाधीनता की प्राप्ति 20. भारत की विदेश नीति –गुटनिरपेक्षता संदर्भ ग्रंथ : – आधुनिक भारत 1. एल.पी.शर्मा – इंडिया टुडे 2. रजमी पाम दत्त - आधुनिक भारत का इतिहास प्रताप सिंह – आधुनिक भारत 4. एम.एस. जैन – आधुनिक भारत का इतिहास 5. समित सरकार बी.एल.ग्रोवर एवं यशपाल – आधुनिक भारत का इतिहास – भारत का इतिहास 1757–1857 7. एग्नेस ठाकर 8. वीरकेश्वर प्रसाद सिंह - भारतीय राष्ट्रीय आंदोलन एवं संवैधानिक विकास - मेकिंग ऑफ मॉर्डन इंडिया 9. एस.आर. शर्मा - सेंट्रल एडमिनिस्ट्रेशन ऑफ ईस्ट इंडिया कंपनी 10. ৰী.ৰী. দিश্र - प्लासी से विमाजन तक 11. शेखर बंधोपाध्याय 12. विपन चन्द्र - आधुनिक भारत का इतिहास

- मार्डन इंडियन हिस्ट्री 1707 टू प्रजेन्ट डे – हिस्ट्री ऑफ मार्डन इंडिया

13. बी.डी. महाजन

14. के.सी. चौधरी

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1975 - 1975

	(खड ब आधुनिक भारत) ((Section - B Modern India) आधुनिक भारत (1858 से 1964 ई. तक) आर्थिक, सामाजिक, सांस्कृतिक
	(MODERN INDIA 1858 A.D. TO 1964 A.D. (ECONOMIC, SOCIAL, CULTURAL)
	डुकाइन 1
	1. ग्रानाज अवव्ययस्या – फूलि फा रस्यात २. अकाल नीति
	2. जपगल भाष २. प्राहरी अर्थत्यतस्थान औद्योगिकीकरण का विकास 1858–1947
	अ तहत प्रैमाने के जहाँगा
	स्तार्थ- १
	र गरे दे 5. औद्योगिक श्रम श्रम संघों का विकास व आंदोलन
	6. जनसंख्या
	7. रेल्वे का विकास एवं भारतीय अर्थव्यवस्था
	8. रेलपथ के सामाजिक, आर्थिक प्रभाव
	डकाई— 3
	9. भूमि सुधार – 1964 तक
	10. नियोजित अर्थव्यवस्था-पयवर्षीय योजनाए
	11. योजनाओं के आर्थिक परिणाम
· ·	इकाई— 4
	12. आर्य समाज, प्रार्थना समाज
	13. थियोसोफिकल सोसाइटी, रामकृष्ण मिशन
	14. अलीगढ़ आंदोलन
	15. निम्न जातीय आंदोलन, सिक्ख सुधार आंदोलन
	इकाई— 5
	16. ब्रिटिश शासन काल में नारी उत्थान के प्रयास
	17. आधुनिक शिक्षा का विकास
	18. समाचार पत्रा का विकास
	19. स्वास्थ्य एवं विज्ञान – तकनाकां विकास
	संदर्भ प्रथाः
	१. बा.एल.ग्रावर एवं यशपाल – आधुानक मारत को इतिहास एक नवान मूल्याकन (1707–1909) • जन्म की गर्मा
	2. एल.पा.शमा – आधुानक मारत
	३. एस.आर.समा – माकग आफ माडन इर्डवा ४. ए आर.सम्
	4. Contracting $\rightarrow$ fixed a trace of the interval of the inter
	२, जार.ता. ५५५ — ३५७९४१७९२,। जाम ३७९५ ८ तिमिन् जंद — भारतीय प्रतंत्रता संयाम का श्वीरास १८५७१९४७
	7 तिगिन चंद आजाही के बाद भारत (1947–2000)
	१ समित सरकार — आइनिक भारत
	a एम ए जैन — आइनिक भारत का इतिहास
	10 प्रताप सिंह
	11. प्रताप सिंह — आधनिक भारत 3 खंड
	12. एग्नेस ठाकर – भारत का आर्थिक इतिहास 1757-1950
	13. पुरी दास ठाकुर – भारत का सामाजिक, आर्थिक एवं सांस्कृतिक इतिहास
	14. अरूण भट टाँचार्य – हिस्टी ऑफ मार्डन इंडिया



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		भारतीय राष्ट्र	रीय आंदोलन का इतिहा	स (1922 से 194	7 ई. तक)	
oonalit oo '		(HISTORY OF IN	idian National Mo	VEMEN¥ (1922	TO 1947 A.D.)	en e para de la trace.
	इकाई—	1	· .			
		1. स्वराज्य दल		c	• • • • •	
		2. साइमन कमीशन व	ज वराध एव नहरू रिपा	5		
		2. सविनय अवज्ञा के	समय भारत को राजनी	तक स्थात	2 mm	÷
	-	4. संविनय अवंझा आव	दोलन		. · ·	
	হুকাई	2			ر از از میرون کیتیکی از	
		5. गोलमेज सम्मेलन				ر
		<ol> <li>पूना समझौता एवं</li> </ol>	<u>श्वेत_पत्र</u>		مېمەنىسە، بىر بېرىمە يېرى،	
		7. प्रांतीय स्वायत्ता क	न क्रियान्वयन	·		
		<ol> <li>राजनीतिक गतिरोध</li> </ol>	T 1940-45			
	इकाई	3			20 P	
		9. क्रांतिकारी आंदोलन	न द्वितीय चरण			
- <u>.</u>		10. भारतीय राजनीति	में वामपंथी विचारधारा		а. 1. т. т.	
		11. कुषक एवं जनजा	तीय आंदोलन		•••	
		12. श्रॅमिक आंदोलन				
	डकाई—	4		·	· · · · · · · · · · · · · · · · · · ·	
		13. व्यक्तिगत सत्याग्र	हि			
		14. क्रिप्स मिशन	-			
		15 भारत छोड़ो आंद	ोलन			
		16 भारतीय राजनीति	ा में गांधीजी का योगदा	न े	· · · · · ·	
	दकाई—	5	• • • • • • • • • • • • •	•		
	4.41.14	। 17 भारत विभाजन व	ठी योजनाएं			
		18 केंब्रिनेट मिशन ए	ग्वं अंतरिम सरकार		•	
		ाठ, भाषाट हिन्द फौ	ज एव सभाष चंद बोस		1	
		ा३. जाजाय १७ व ज २०. च्यांगटामिक राज्य	नेति का तिकास एवं भा	रत विभाजन		
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Ataf Bihari Vajpayee Vishwavidyataya ,Bilaspur (CHHATTISGARH). www.bilaspuruniversity.ac.in



सेमेस्टर पाठ्यकम एम.ए. इतिहास

SEMEST	ER-IV
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#### **OPTIONAL - II**

- डंकाई—
- 1. भारतीय संस्कृति में अकबर का योगदान
- 2. मुगलकालीन समाज
- 3. मुगलकालीन स्थापत्य
- 4. मुंगलकालीन चित्रकला

इंकाई— 2

5. मुगलकालीन संगीतकला

6. मुगल कालीन साहित्य

7.दक्षिण भारतीय सांस्कृतिक जीवन

8. दक्षिण भारत की कला एवं स्थापत्यकला

इकाई– 3

- 9. यूरोपियों के आगमन का आर्थिक प्रभाव
- 10. भारतीय संस्कृति पर पाश्चात्य प्रभाव
- 11. भारतीय संस्कृति में ईसाई मिशनरियों का योगदान
- 12. युरोपीय प्राच्यवादियों का भारतीय संस्कृति में योगदान

इकाई-- 4

- 13. राजा राममोहन राय एवं ब्रहम समाज
- 14. आर्य समाज तथा थियोसोफिकल सोसाइटी
- 15. रामकृष्ण मिशन एवं विवेकानंद
- 16. मुस्लिम समाज सुधार आंदोलन
- হকার্ছ— 5

17. ब्रिटिश भारत में नारी की स्थिति – सामाजिक कुरीतियां

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18. ब्रिटिश भारत में मारी सुधार के प्रयास

19. कंपनी शासन काल में शिक्षा का विकास 1857 तक

20. ब्रिटिश शासन कॉल में शिक्षा का विकास 1858 से 1947

#### संदर्भ ग्रंथ :

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7.	बी.एन. लुणिया	_	मुगल साम्राज्य का उत्कर्ष			
8.	शिवशंकर शर्मा	_	भारतीय संस्कृति			
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# अटल बिहारी वाजपेयी विश्वविद्यालय, बिलासपुर (छत्तीसगढ) संमेस्टर पाठ्यकम एम.ए. इतिहास

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# अटल बिहारी वाजपेयी विश्वविद्यालय, बिलासपुर(छत्तीसगढ़) संमेस्टर पाठ्यकम एम.ए. इतिहास

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### SCHEME OF EXAMINATION AND DISTRIBUTION OF MARKS

At post graduate level candidate required to study 16 compulsory papers and 4 optional papers during 4 Semesters. There shall be 04 compulsory papers and 01 optional paper in I, II, III & IV semester.

Note: It is compulsory for the candidate to qualify first question paper of any one group of the optional paper in semester-I. Similarly one has to qualify the second question paper of the same group in semester-II. In the same way in semester-III & IV it is compulsory for the candidate to qualify both the question paper of any other group.

### SEMESTER-L

Paper No.	Title of the Paper	Internal Assessment	Term End Exam	Total Marks
1.	Micro Economic Analysis	20.04.04	80	100
2.	l antitative Methods	20	80	100
3.	Indian Economic Policy	20	80	100
4.	International Trade & Finance	20	80	-,160
OPTION	AL (Choose Any one Group)	يكنه وروا المحالين ال		a ef <b>1</b> 41- á
5.	Group A 1. Industrial Economics	20	80	. 100
<b>.</b> 5.	Group B 1. Labour Economics	20	<b>80</b>	100
5.	Group C 1. Demography	20		100
5.	Stoup D 1. Agriculture Economics	20	<b>80</b>	100
5.	Group E 1. Computer Application in	20	80	100
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			TOTAL	-500

#### .) Semester II

Paper	Title of the Paper	Internal	Tem End	Total
No.		Assessment	Exam	Marks
1.	Miero Economic Analysis	20	80	100
2.	Research Methodology and Computer Application	20	an 6 <b>80</b>	100
_3.	Indian Economic Policy	20	80	100
4.	International Trade & Finance	20	80	100
OPTION	AL (Choose Any one Group)			
5.	Group A 2. Industrial Economics	20	80	100
5.	Group B 2. Labour Economics	20	80	100
5.	Group C 2. Demography	20	80	100
5.	Group D 2. Agriculture Economics	20	80	100
5.	Group E 2. Computer Application in Economic analysis	20	80	100
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## SEMESTER I PAPER- I (COMPULSORY) MICRO ECONOMIC ANALYSIS

- UNIT-1 Basic Economic Problems, Deductive and inductive methods of analysis, Elasticity of demand (Price, Cross, Income) elasticity of supply, Theories of demand.
- UNIT II Utility, Indifference curve Income and Substitution effects Slutksy theorem, Compensated demand curve and their application.
- UNIT-III Revealed Preference theory, Revision of demand theory of hicks, Consumer's surplus.

UNIT - IV Production function - Short period and long period, law of variable proportion and return of scale Isoquants - least cost combination of inputs, Economics of scale, elasticity of substitution.

UNIT – V Euler's Theorem, Game Theory Technical Progress and production function Cob- Douglas, Cost and Revenue analysis.



### SEMESTER I PAPER- II (COMPULSORY) QUANTITATIVE METHODS

The Application Ch

UNIT-1 Basic Concept – formulation of a linear programming problem its structure and variables, nature of feasible, basic and optional solution symmetrical and symmetrical distribution, measurement of Skewness-Karl Pearson's coefficient of Skewness, Blowley's coefficient of Skewness!

- UNIT-II Simple Correlation, Measurement of correlation, Karl Pearson's coefficient of correlation, Partial and multiple coefficient of Correlation, Spearman's Coefficient of correlation, Interpretation of coefficient of correlation.
- UNIT-III Regression analysis, regression and correlation, regression lines and regression coefficient, regression equations multiple regression analysis (up to three variables) standard error of the estimates. Inter Pollution and extrapolation, Mathod of fitting a parabolic curve, Newton's method of advancing difference, direct binomial expansion method and Lagrange's method.
- UNIT-IV Probability, meaning and definition, Permutation and combination, Types of events, Measurements of Probability- addition and multiplication theorem, conditional probability.
- UNIT-V Index Number, Meaning importance, points to remember while constructing index number, chain index number, cost of living index number, Fishers ideal index number Reversibility test- time Reversibility & factor Reversibility.



## SEMESTER- I PAPER- III (COMPULSORY) INDIAN ECONOMIC POLICY

- UNIT -- I GDP and National Income of India -- Components and structure of GDP and national Income, Role of Primary, Secondary & Tertiary Sectors in GDP of India, National income and per Capita Income, Growth rates of GDP and per Capita income, saving Investment and Capital Formation Rates in India.
- UNIT II Economic Development and its Determinants Approaches to economic Development and its measurement sustainable development; Role of State Market and other institution, Indicators of development PQLI, Human Development Index (HDI) gender Development Indices.
- UNIT-III Planning in India- Objectives and strategy of planning, Failure and achievements of Plan, Developing grass-root organization for development Panchayat, NGO's and pressure groups.
- UNIT-IV Demographic Features, Poverty and equality, Broad demographic features of Indian population, Rural- Urban Migration, Urbanization and civic annuities, poverty and Inequality.
- UNIT-V The agriculture sector, institution Structure- Land reforms in India, Technological change in agriculture- input and output, agriculture finance policy, Agriculture marketing and warehousing, issues in food security policies for sustainable agriculture.



## SEMESTER I PAPER- IV (COMPULSORY) INTERNATIONAL TRADE & FINANCE

- UNIT I Theory of International trade- Meaning and distinguishing features of interregional and international trade. Difference and similarities between inter-regional and international trade. Smith's theory of absolute advantage, Ricardo's theory of comparative cost and Haberler' support unity cost theory.
- UNIT II Mill's Theory of recipred demand, offer curve analysis, Hecksher– Ohlin theory of international trade, factor price equalization, Stopler- Samuelson and Rybezynski theorems.
- UNIT-III Measurement of gains from trade and their limitations, The terms of Trade Concept, Determination of terms of trade, Factor affecting terms of trade, Terms of trade and Economic development, Terms of Trade and welfare implications, Trade as an engine of economic growth.
- UNIT-IV The theory of interventions (Tariff, Quetas and non- tariff barriers) Economic effects of tariff Quetas on national income, output, consumption, Price employment, Terms of trade, and income distribution, Dumping-Type, objective and effects of dumping, current incidence of dumping in India and its impact on our economy, anti-dumping measure.
- UNIT-V Meaning and components of balance of Payment (BOP), Equilibrium and disequilibrium in the BOP, measures to correct the adverse BOP, Marshall –Lerner's conditions under devaluation, expenditure switching policies and direct control.



## SEMESTER II PAPER- I (COMPULSORY) MICRO ECONOMIC ANALYSIS

- UNIT-1 Price and output determination-perfect competition short run and long run, Equilibrium of the firm and industry, monopoly – price and output equilibrium under monopoly, price discrimination, monopoly control and regulation.
- UNIT-- II Monopolistic competition- General and Chamberlin approaches to equilibrium and selling cost, oligopoly- non collusive (Curnot, Bertrad, Kinked Demand Curve) and collusive (Cartels mergers & Price leadership) Baumols sales revenue maximization model, Baines limits pricing theory.
- UNIT- III Distribution- Marginal Productivity theory of distribution, Modern Theory of Distribution, Rent- Recardian and modern theory, Theory of interest and IS-LM Curve model.
- UNIT-IV Theory of wages-wage determination under perfect and imperfect competition, Theories of profit, risk uncertainty and innovation theory, Welfare economics and general Equilibrium-Pigouvian welfare economics, Pareto optional condition.
- UNIT V Social welfare function, compensation principle, theory of second best Arrow's impossibility theorem, partial and general equilibrium, walrasian excess demand and inputs output approaches to general equilibrium.



### SEMESTER II PARER- II (COMPULSORY)

RESEARCH METHODOLOGY AND COMPUTER APPLICATION

- UNIT-I Association of attributes, Meaning and types of association, consistency of data, methods of determination association method of comparison of observed and expected frequency, method of comparison of proportion, coefficient of association using Yule's method. Time series analysis, Short period oscillation, Trend, Semi average method, Moving average method, Method of least squares, Graphical presentation.
- UNIT-II Research methodology and research methods, Research meaning, types and motivation of research, main stages of statistical research, primary and secondary data, methods of collecting primary data, secondary data; different sources, precautions, while constructing questionnaire.
- UNIT-III Sampling and sample design, census and sample methods, methods of sampling: random sampling methods and non random sampling methods, size of sample, ments and limitations of sampling, classification, types of classifications, types of tables.
- UNIT- IV Hypothesis, meaning and types of hypothesis, procedure of test of significance, student's "T" test. Chi-square test and F ration test, Practical problems related to significance of the difference between small samples.

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UNIT-V Computer, What is computer, Different parts of computer, Hardware and software, Types of computer, Main characteristics of a computer, Role of Computer in economic research.



## Semester II Paper- III (Compuesory) Indian Economic Policy

UNIT	Industrial Sector, Industrial Policy, Public sector, enterplises and their performance, Problem of sick units in India, Privatization and disinvestment debate growth and pattern of industrialization.
UNIT II	Public Finances & Banking, Fiscal federalism: Centre – state financial relation: Finances of central government, Finances of state government; Fiscal sector reforms in India, Review of monetary policy of RBI.
UNIT- III	External Sector & Economic Reforms- Issues is export — import policy and FEMA, Exchange Rate policy foreign capital and MNCs in India, the Progress of trade reforms in India.
UNIT- IV	Balanced Regional Development indicators of regional, imbalance courses of Economic backwardness and regional imbalances
Carte partie	A STATE AND A STATE THE AND AND THE THE TARGET A STATE AND
ÖNIT-V	WTO and its impact on different sector of economy, Economic, Reforms Rational of Internal and external reforms; Budget (Country and states), How to Prepare a budget of central and state Government.

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## SEMESTER II PARER-IV (COMPUESORY) INTERNATIONAL (RADE & FINANCE

- UNIT-I. Theories of Exchance rate: Equilibrium Exchange rate free market theory of exchange rate, Concept at loreign exchange rate, the purchasing power parity theory, balance of payments theory, spot, and, forward exchange rates, fixed and flexible exchange rates, their merits & demerits.
- UNI II Emerging international monotony system: Reform of international monetary system in **Judici and Electoring countries**, Functions, achievements and failure of WTO (TRIPS, TRIMS) UNCTAD, IMF, World Bank.
- UNIT-III Asian Development Bank, Moriel Bank and India, European Economic Community, Rational and Economical progress of SAARC and ASEAN regions
- UNIT-IV Theory of short term and long term capital movement and international trade-I port-folio creational creater international trade, 2. FDI & FII international trade, Molifier and Septembril, of Jong, term, capital movement, Global financial creater and flow for a sector of the sector.
- UNIT-V Trade Problems and trade policies in India after reforms, Recent change in the direction and composition of trade and their implications, impact of trade reforms since 1991, instruments of export promotion, Recent import & export policies in India, Problems of India's international debt.



## SEMESTER III PAPER- I (COMPULSORY) MACRO'ECONOMIC ANALYSIS

- UNIT-I Definitions and concepts of National Income (NI) and national product, methods of measurements of NI and difficulties in the measurement of NI, Different forms of national income accounting, social accounting, inputoutput accounting, NI and welfare,
- UNIT II Consumption Marginal and average propensity to consume, Keynes Psychological laws of consumption, determinants of consumption function, Income consumption relationship absolute income hypothesis, Duisenberg's relative hypothesis, Permanent Income hypothesis and life cycle hypothesis.
- UNIT III Meaning and types of investment, determinants of investment, marginal efficiency of capital investment, saving and investment equality, multiplies, accelerator, super multiplier; employment, Theory- Classical theory, Keynesian theory of income and employment, Comparative Study

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- UNIT IV Demand for Money- Fundamental equation of Keynes post Keynesian approach to demand for money- Patinkin, Boumol's, James Tabin, Friedman, Gurley & Shaw's approaches.
- UNIT V The Product market equilibrium, the money market equilibrium, General Equilibrium of product and money market, changes in general Equilibrium.



## SEMESTER III PAPER- II (COMPULSORY) PUBLIC FINANCE

- UNIT I Role of Government in organize society, Principles of maximum social advantage taxation different forms, principals of taxation, Shifting, effects and incidents of taxation, Impact of tax under laws of returns and perfect competition.
- UNIT II Indian tax System; Indirect & direct tax, corporate tax, personal income tax, estate duty, central excise, custom duties, taxes on land and agriculture, value added tax, MODVAT, Service tax, taxable capacity, tax reforms in India.
- UNIT III Public expenditure- Different forms of expenditure, structure and growth of public expenditure in India, trends in central govt, expenditure, economic effects of public expenditure on production and distribution, public expenditure and economic growth.

UNIT - IV Public debt- Different source of public debt, Redemption of public debt, principles of public debt management, Growth of Public debt in India

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UNIT – V Budget– budget process in India, objectives of budget, kinds of budget– traditional budget, performance budget, zero based budget, out come budget, gender budget, budget theory–classical view point, balance budget, modern view point, imbalance budget.


#### SEMESTÉR III PAPER- III (COMPUESORY) ECONOMICS OF GROWTH

- UNIT I Economic Growth: Economic growth and development, measurement of economic growth, Economic growth model vicious circle of poverty, Physical Quality of life index, Human development index, UNDP Human development report 2010, inclusive growth.
- UNIT -- II The concept of capital output ratio, input-- output analysis, project evaluation and cost-benefit analysis, Methods of project evaluation.
- UNIT III Theories of Development: the Marxian model, The Schumpeterian model, Keynesian Model, theory of development, mahalanobis four sector model.
- UNIT IV Theories of development Harrod- Domar Model: Arthur Lewis Model unlimited supply of labour, Ranis & Fie Mode, Kaldor Model of distribution.
- UNIT V John Robinson model, Meads New- Classical model Hicks and Hayek model, Solow model of long-run growth.



### SEMESTER III PAPER- IV (COMPULSORY) ENVIRONMENTAL AND WELFARE ECONOMICS

UNIT – I Welfare Economics - Definition of welfare economics, Criterion of social welfare, Cardinal Criterion, Pareto Optimality Criteria, Kaldor– Hicks Compensation Criterion, The Bergson Criterion, the problem of second best.

UNIT – II

Social welfare function, Maximization of social welfare, Maximization in perfect competition, public goods and private goods, market failure & public goods.

- UNIT III Environmental Economics– Beneficiation of Environmental Economics, Relation between environmental Economics and economics, Environmental Economics and eco logical economics, environmental and resource economics, important issues in environmental Economics, Macroeconomic policy and environment.
- UNIT IV Theories of Externalities- Economies and diseconomies, External Cost, Marginal social cost, Marginal private cost, Pigeons taxes and subsidies.
- **UNIT -- V** Environmental value-- Use value, option value and non use value, International carbon tax, environment and W.T.O.



## SEMESTER IV PAPER- 1 (COMPULSORY) MACRO ECONOMIC ANALYSIS

UNIT – I Supply for Money

Quantity Theory of Money- Fisher's and cash balance (Cambridge) approach, definition of money supply, determinants of money supply, RBI approach to money supply, budget deficits and money supply, High Powered money, control of money supply.

- UNIT II Concept of inflation, semi and full inflation, Demand pull and cost push Inflation, theory of structural inflation, causes & effects of inflation, Stagflation, control of inflation, The Philips curve analysis.
- UNIT III Business cycles- main features of business cycles, Types of Business cycle, Theories of Business cycles, Hawtrey's monetary theory of trade cycle, Schumpeter's Keynes Hicks, Samuelson's, Friedman, Kaldor model of trade cycle, Control of business cycle.
- UNIT IV Monetary policy- Meaning of monetary policy, instrument of monetary policy, Objective of Monetary policy, limitations of monetary policy, monetary policy and economic development, new classical macro economics.
- UNIT -- V International Monetary System & Fiscal Policy- International Monetary system, International Liquidity problem, SDR & New International Economic Order, Meaning & objectives of Fiscal Policy, instruments of fiscal Policy.



بالمناجع والمحاجج العقيرة المرا

# बिलासपुर विश्वविद्यालय, बिलासपुर (छत्तीसगढ़) SEMESTER SYLLABUS M.A. ECONOMICS

## SEMESTER IV PAPER- II (COMPULSORY) PUBLIC ECONOMICS

- UNIT I Fiscal federalism in India, principles of fiscal federalism, finance commission report, vertical and horizontal imbalance
- UNIT II Fiscal Policy– Objectives of Fiscal policy, theory of Fiscal Policy, Policy in under developed countries, Economic Stability and fiscal policy and full employment. Fiscal policy and economic development: A Study in Development finance.
- UNIT III Federal finance Principle of federal finance in India, Centre-state financial relation, resource transfer from centre to state, Godgil formula.
- UNIT IV Analysis of central & Chhattisgarh Govt. budget, Taxable and non taxable income of Chhattisgarh, Structure and growth of public expenditure in Chhattisgarh.
- UNIT V Financial responsibilities and budget management Act, Performance of the Chhattisgarh Govt. Budget, Plan & Non plan, Expenditure in Chhattisgarh.

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## SEMESTER IV PAPER- III (COMPULSORY) ECONOMIC DEVELOPMENT & PLANNING

- UNIT-1 Economic Planning: Objective, achievements and failure of Indian Plans, Resource mobilization in Indian plan, Strategy of Indian Plan, Saving capital formation and overall growth rate, Eleventh five year plan (2007-12) Midterm appraisal of eleventh five year plan.
- UNIT-II Approaches to development Vicious circle of poverty, Big-Push theory, theory of critical minimum efforts, balanced and unbalanced growth.

UNIT-III Investment criteria in economic development, The social marginal productivity criteria, the capital turnover criteria, The Re-investment

enterion; Time series enterion Fiscal.

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UNIT-IV Fiscal and mometary policy, human capital formation in developing countries, Economic crises in developed and developing countries with special reference to economic development

UNIT-V Problems of development, measuring poverty of world and India, Income Incentifices, unemployment, the choice of techniques, sustainable Development, role of state in economic development, problem of pricerise in India.

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## SEMESTER IV PAPER- IV (COMPULSORY) ECONOMICS OF SOCIAL SECTOR

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UNIT-I	Pollution-	Classification of	pollution,	Control: of	pollution,	Air	pollution
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	analysis of	pollution environr	nent and p	ollution.	attai		

UNIT-III Environmental protection, Environmental laws, Brotestion, Environment and development, Sustainable development population growth and environmental issues-global warming, climate change, green house effect.

UNID-III Resource - Classification of Resource, Renewable, Besource, Nonrenewable, optimum use of resource, land resource, forest resources, social forestry, peoples participation in the management of common and forest land renergy efficiency and environment energy laxation, atomic & Solar Energy.

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UNIT-IV Education- Economics of education, Expenditure on education, Final City expenditure on education, productivity of education, the nature education, Human capital Vs. Physical capital, Educational, reforms and Right the Education Act.

UNIT-V

Health Economics, Determination of health care, malnutrition, the concept of Human life, Inequalities in Health-Class and Gender, Prospective HDI GDI, GEM and HPI.



#### SEMESTER -- I / III GROUP- A (OPTIONAL) 1. INDUSTRIAL ECONOMICS

- UNIT I Framework and Problems of Industrial Economics- Concept and organization of a firm ownership, Control and objectives of the firm, passive and active behavior of the firm
- UNIT II Market Structure Seller's concentration Product differentiation; Entry conditions; Economics of scale; Market structure and profitability; Market structure and innovation; Theories of industrial location; Weber and Sergeant Florence Factors affecting location.
- UNFT III Market Performance- Growth of the firm- Size and growth of a firm; Oriowth and profitability of the firm; Constraints on growth; Productivity, efficiency and capacity utilization- Concept and measurement, Indian situation.
- UNIT IV Indian industrial Growth and Pattern- Classification of industry, Industrial policy in India- Role of Public and private sectors, Recent trends in Indian industrial growth, MNCs and transfer of technology.
- UNIT V Liberalization and Privatization– Regional Industrial growth in India, Industrial economic concentration and remedial measures, issues in Industrial proliferation and environmental preservation, Pollution control policies.



### SEMESTER - I / III GROUP- B (OPTIONAL) 1. LABOUR ECONOMICS

- UNIT I Labour Market- Nature and characteristics of labour market, Analysis classical, new classical. Analysis of demand and supply, labour forces, demand for labour relating to choice of technology.
- UNIT -- II Supply of labour in relation to growth of labour force-- Rationalization, methods of recruitment and placement, Employments revise organization in India.
- UNIT III Employment– Employment and development relationship poverty and unemployment-concept, Types and measurement, particularly in India, Causes of unemployment issues relating to employment rationalization.
- UNIT IV Technological change and modernization on employment in organized. Private industry, public sector and employment in agriculture sector

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**UNIT – V** Wage determination - Various classical, neo classical and bargaining theories of wage determination, various concepts of minimum wages and fair living, Problem of implementation of minimum wages.



SEMESTER -- I / III GROUP- C (OPTIONAL) 1. DEMOGRAPHY

- UNIT I Demography– Meaning, Scope and importance of demography sources of demographic data. Tools of demography analysis, Measurement of population growth and population pyramid.
- UNIT II Theories of population Malthus theory, Socio–culture and economic theories of population, Biological theories of population, Theory of optimum population, Theory of demographic transition.
- **UNIT III** Fertility– Meaning and definition of fertility, Measurement of fertility child woman ratio, crude birth rate, corrected birth rate, General fertility rate.
- UNIT IV Age specific fertility rate, Total fertility rate, Gross reproduction rate, and Net reproduction rate, calculation of fertility rates, determination of fertility Trends fertility in India.
- UNIT V<sup>~</sup> Mortality and morbidity– Importance of mortality data causes of death, Meanings of morbidity, Differentials in mortality and morbidity.



#### SEMESTER - I / III GROUP- D (OPTIONAL) 1. AGRICULTURE ECONOMICS

- UNIT I Nature and scope of Agriculture economics, Traditional and modern agriculture, Role of agriculture in economic development, Problem in rural industrialization.
- UNIT II Development of agro- based industries, between agriculture and industry, Green revelation, Agricultural Production, Production function analysis, cost concept in agriculture product, form budgeting,
- UNIT III Resource use and efficiency in agricultural sector, Land use, Principles of land utilization, land use, Principles of land utilization, land distribution, Land values and rent, Land reform measures and performance, Land tenures and farming system.
- UNIT IV Problem of marginal and small farmers, Rural Labour Supply, Mobility of labour and labour market in agriculture sector
- UNIT -- V Nature of employment in rural sector Agriculture wages in India. Male --Female wage difference in agriculture.



#### SEMESTER – I / III GROUP- E (OPTIONAL)

#### 1. COMPUTER APPLICATION IN ECONOMIC ANALYSIS

- UNIT I Introduction to commuter and peripherals: Basic components of computer CPU input-device, Keyboard, Mouse and Scanner, Video display, Printer and Plotters.
- UNIT II Data storage and retrieval, hard disk, floppy disk and CD ROM: Types of computers and their applications, computers networking and resources sharing hardware, Software and firmware.
- UNIT III Examples and techniques in programming languages elementary Knowledge only, Data processing, Techniques and algorithms concepts of data record and file. Types of data and data structure, data analysis, file handling and operations like opening.
- UNIT IV Appending and cascading, closing and attribute control, data storage and retrieval, data Operations algorithms like sorting, merging, joining and bifurcation database and operation on database, DBMS and RDBMS.
- **UNIT V** Statistical Processing Techniques and Methods series, tables, Graphs and object time and frequency series,



## SEMESTER - II / IV GROUP- A (OPTIONAL) 2. INDUSTRIAL ECONOMICS

- UNIT-I Industrial Finance Owned external and other components of funds; Role, nature, volume and types of institutional finance – IDBI, IFCI, SFCs, SIDC. Commercial banks etc
- UNIT-II Financial Statement- balance sheet, profit and loss account, assessment of financial soundness
- UNIT-III Project Appraisal-Cost-Benefits analysis-Net Present Value (NPV) and internal rate of return (IRR) criteria balancing private and social returns.
- UNIT- IV Industrial Labour Structure of Industrial labour, Employment dimensions of Indian industry; Industrial legislation; Industrial relations; Exit policy and social security; Wages and problem of bonus - labour market reforms.
- UNIT-V Current Problems of selected Industries- Iron and Steel, Cotton textiles, jute, sugar, coal, cement and engineering goods, development of small-scale and collage industries in India.

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#### SEMESTER 417/ IV GROUP- B (OPTIONAL) 2. LABOUR ECONOMICS

UNIT-I Wage determination by Qatar-urban & rural, Organized and unorganized. Wages and inflation, Productivity and wage relationship, Profit sharing scheme, Causes of wage differentials in terms of firm, occupation and region.

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- UNIT-II Industrial Relation- Industrial Relation and Fade Unions Industrialization and emergence of trade unionism, Growth structure and pattern of trade unionism Achievements and failures of trade union movement.
- UNIT-III Causes of industrial disputes, Step to achieve industrial peace, Method of settlement of industrial disputes collective bargaining. Conciliation arbitration role of judicial activism, labour tegislation in India, Indian labour law and practices in relation to international abour standard.
- UNIT IV State and labour in India-- State and social security of labour, concept of social security and its evolution social assistance, Review and appraisal of state policies with respect to social security and labour welfare in India.
- UNIT V Special problem of labour, Child labour, Female labour, discrimination and genderbrias in treatment of labour, Labour market reform— exit policy need for safety nets, Measures impairing, Flexibility in labour markets, Social Insurance, Second National commission of labour, globalization and labour markets.



SEMESTER: 11/ IV GROUP- C (OBTIONAL) 2. DEMOGRAPHY

UNIT - I Measurement of mortality crude death rate, age-specific death rate, Infant mortality, rate, Standardized death rate and maternal mortality rate, calculation of mortality rates.

UNIT -- II Trends in mortality in India, life table, Migration and urbanization, **Population projection growth of population in India**, Population and economic developments and the population and the second sec

UNIT-III Population explosion in India, Demographic characteristics of developing countries. Population policy of India constraints in the second sec

UNIT-IV Wenter Entropyernent-Economics status, Women in decision making, Women and Jabour market. Evolution of pepulation paticy in India- The shift in policy from population control to family welfare, to women empowerments

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UNIT -- V Eanily planning strategies and their outcomes, the new population policy, Tasks before the National Population Commission.

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#### SEMESTER -- II / IV GROUP- E (OPTIONAL)

#### 2. COMPUTER APPLICATION IN ECONOMIC ANALYSIS

- UNIT-1 Regression methods and technique regression analysis data validation, trends and cycle city forecasting system modeling and description;
- UNIT-II System equation, specification, error and correction strategies, statistical modeling and descriptive statistic, distribution functions, regression statistics.
- UNIT-III I.T. application commerce, Online Banking ATN's Electronic stock, Exchange electronic trading data sharing and decimation, electronic transition, documents delivery, authentication and validation transaction, processing.
- UNIT-IV

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I.T. Application to commerce electronic trading and marketing, Online shopping and malls, B2B, B2C, and G2B, models and their applications.

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UNIT – V Document and transaction security and digital signature, integrated transition on mobile platforms.



### SEMESTER - II / IV GROUP- D (OPTIONAL) 2. AGRICULTURE ECONOMICS

UNIT-I Rural finance: Rural Finance- role of rural capital and rural credit, rural capital and capital formation, characteristics and source of rural credit, Institutional and non institutional rural credit, Rural bank, Regional Rural banks and rural credit co-operative societies.

- UNIT-II Agriculture price Agriculture market, behavior of agriculture price, agriculture, Markets and agriculture marketable surplus, Taxation, crop insurance, state policy and agriculture price policy.
- UNIT-III Agricultural Growth in India: Agricultural growth in India- recent trends, interregional variation in growth of agriculture product, cropping pattern, factors affecting productivity, pricing of input, role of subsidies, role of technology and input of irrigation in agricultural sector.
- UNIT- IV Problem and prospects of Globalization and W.T.O. in India, Agricultural commodities, Infrastructure and economic development, the structure of Transportation costs.

UNIT-V Demand for transportation, cost function in the transport Sector, Telephone utilities, role of postal services, Demand for energy, energy conservation, renewable and non-conventional sources of energy.