एमण ए० हिन्दी ए तृतीय रोमेस्टर) -धतुर्प प्रश्नपत्र - भारतीम स्माहित्य शिक्षण योजना (रात्र 2023-24)

ক্র	मार	ক্তগ্ৰ	218101 10102-
	पुलार	(01)	नारतीय साहित्य का स्वक्षप, भारतीय साहित्य
	गिगल		भारतीय साहित्य में आरतीय मुल्यों की अभिष्यित
	ोतान्त्र	02	रिन्दीतर लाहित्य का इतिसार'— रिन्दीतर लावा नर्ग में मलमालम प्राथाल लावा नर्ग में लेंगला
And State	म्ट्रशर	@3)	प्रिंगोर्गर भाषा वर्ग में मराकी - हिन्दी भाषा साहित्य - तुल्नात्मड अध्ययन उपन्यास - अभिनगर्भ (क्षांग्ला = महास्ता रेकी)
NAME NAME	140)2	७५	्राष्ट्र - त्यवदम (कन्मड़ - जिरीया कनाड) रिमिरिंगा, पार्थों के आरिय - प्रिण व्याख्या अभा, स्थाना कार का परिचया
	र्-)म्बर		किला संग्रह - कीक्य के उर्ख्त -
0	नवरी इसम राजाह)		तस्तुनिष्ट पश्न (अतिल्यु अशीय पश्च)

(डॉ॰ नीता राज्यत)

ति कामण / जी- एरनण ती - प्रथम प्रमाप्त्र उपालार पाद्यलम् स्टिली भाषा - प्रथम प्रमाप्त्र

377 - 2023-24							
माठ	व्यग्रह	4164 ====					
<u>जुलाइ</u>	(1) (3)- (3)-	एक टीकरी अर मिट्टी मध्यवाद					
अगस्त	②-(b) -	रंदिपण, हिन्दी में रंदिशिटनं करण, हिन्दी अपिक गर्याश, पारिभाषितु श्राव्यावली, हिन्दी में पदलाम, मुटावर एवं स्तिकी क्रियाँ					
रिनतम्बर	(1 9)	जागी फिर एड बार-२३स्कांत त्रिपारी निरासा अन्मदिन (मिट्टी रो कड्रेगा अन्यवार श्रीयहा) एकांत शीवास्त्रव					
भेक्ट्रलंट	<u></u>	वाद्र-शहि ,वाष्य शहि ,वाद्र नाम-पर्मामानी वाद्र , निलोम व्याद्र , अनेकाधी वाद्र , रामश्चन वाद्र , अनेक वाद्रों के निरुष्ठ शद्र					
नवम्बा ८		भोभाराम का जीव-हरिशंकर परसाई जीप पर खवार दल्लियाँ शरद जीशी					
राज्य (ज	(4) -(B) ·	मानक भाषा का अर्घ, मानक टिन्दी आपा का अर्थ, स्वरूप, विशेषताएँ, मानक, अपमानक अमानक भाषा विश्वामी विवेगांद का पत्र स्वत्य और अटिंका - महाल्मा बाँधी					
जनवरी	·(3) - (3)	देवनागरी लिपि, नामकरका स्वरुप विशेषता है। क्रम्पूटर का रनामान्य परिक्रम, क्रम्पूटर में हिन्दी का अनुप्रयोग					
^{फरवरी}	<u>ৰ</u>	कुदुभा - धरम थन्द्रधर्यमा गुलरी-					
		डॉ० नीतारिक्रियत)					

		700	वी ए प्रथम वर्ष हेन्दी स्नाहित्य (प्रथम प्रमप्र) (द्वितीय प्रथम प्रवासीन हिन्दी काव्य /हिन्दी क्या साहित्य प्राप्य योजना राज 2023-24
मार	20	गर्ड	पि थोजना रगम- २०२३-५५
<u> ખુ</u> ભાર	01-	J	हिन्दी स्माहित्य का द्धितिहाल - अमितानाल, सीतिनाल, आधुनिन काल
क्षेत्रास्य		II	ग्रावन (उपन्यारन) मुंबी चेममंड
रोतम्बर	02-	I	कि परिमय एवं उनकी स्थानाएं सान्त क्वीरदास (पार्रिक 50 सा रिवर्ग) केलन (कहानी) संस्थी प्रेमचन्द
<u> क्टूबर</u>	03-		आयसी - नागमती वियोग वर्णन आकाशकीप (कहानी) अयशंकर प्रसाद
विम्बद	04	工工	खुरदाय- भम्कीत सार (अरंगिक 25 पर) प्रदा (जहानी) यशपाल देख (जहानी) जिंकी अलिश्वरनाय रेग्ड
देसम्बर	- 05	工工工	धंनानं - प्रारंभिक 25 हन्द मलंबे का मालिङ (क्लामी) मोहन राडेश स्वीक्त की दोवत (क्लामी) भीषम स्नाहनी
नवरी		工工工	तुलसी दासन (सुन्दरकाण्ड) जिली हुई रस्सी (कहानी) ग्रेक्शेट्रवाँ शानी गदल (जहानी) रागिय राज्य
ग रवरी		工工	दुतपार - विखापित रहीम, ररनरवान दुतपार - उपेन्द्रनाथ अरड, जालसोरि रेड्डी,
			. (डी वनीता राज्यत)

यपम यश्नपत्र- हिन्दी व्याहित्य का व्यतिहाल (आदिकाल एवं पूर्वमध्यवाल) रात्र - 2023 -24 (शिक्षाण्य) जना) 31 शिक्षा विन 2100 प्टित - हिन्दी र्गाहित्य के क्रिताल लिखन भी गर्ड 0) परंपर) , रगहित्ये तिहाल के प्रनर्लिका की राम्ह्याह कास विभागते लामउरण और नामकरण की (01) गुला रोभस्याएँ आहिगास- आहिगास की क्यांस्ट्रिक है स्थिमि 02 रासो काट्य, रिनंड नाप एवं जैन रगिरिव्य लिनिक रगिरिव्य प्रमित्रीय 19615 स्माएं एवं स्मांकार, आडिणालीन साहित्या विशेष्यांह पूर्व मध्यकाब (भिनत अन्दोलन), भिनतकाल, उद्भव, विकारन, आहोलन की रनांस्थित शुक्रम्मी, भिनतकाल का विकासन, प्रमुख सुब्रालिया, विशेषका 201 03 परंपरा , हारा कि विकार त्यार त्यार मित्रकाल की विभिन्न काल्य्याराष्ट्र - निर्मुण, HE.) (64 परंपरा , प्रवृति एवं उरमका विकारन अक्तिकान की विभिन्न काव्यव्यासार्म्स्या प्रवृत्ति एवं विकास - भनितकाल - स्वर्भभूभे ने हम में विक्यमा। उत्तर क्षंध्यी क्षाप्यारी त्रास्त्र ने ने के नवरी पम नप्तार

एम ए हिन्दी प्रथम रीमेस्टर

दिनीय पश्चिम क्षेमेस्ट्ट दिनीय पश्चिम प्राणित एवं मध्यश्चीत काव्य शिक्षण थोजिता [स्त्र 2023-24]

नाह	द्रवाई	चिहिन विन्द
ुलार	(o)	न्यन्द्रबाइ - प्रधीराण रास्ती - संपाद्र - अम्मार्य रुआरी प्रसाद सिंदि निर्देश निर्देश नामवर सिंह (पर्मापती रुमय)
गिस्त	62	विद्यापति पदावली - संपादक-रामहश्चेनीपुरी (प्रारंभिङ 10-पर)
नेटाम्बुर	63)	ज्बीर भेषावली न्संपादक जीठ श्यामुखुन्द्रकारा (50सारिवयाँ)
मूलर्		कलीर-पद्धमांड - 11, 16, 24, 26, 27, 45, 49, 64, 70, 72, 89, 93, 110, 111, 268
बंबर	9	अंग माया की अंग । परमानत निगमतियोज्ञी मिल्र मीरम्ब निगमतियोज्ञी
प्रेटा म्हा	05	द्वारा रहारतान
जिनवर <u>अध</u> भ रण्टाह		वैस्तुनिव्ह प्रभोत्तर
		(ग्रं नीता राज्यत)

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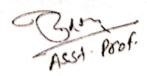
Teaching Plan : Dept. of commerce

Session: 2023-24

Class : B.COM.PART- 1

Subject: Business Regulatory Frame Work

Month	Proposed Work
july	Unit- I Law of contract (1872) -I: Nature of contract classification; offer and acceptance.; capacity of parties to contract, free consent, considerations,
Aug.	Unit-I Legality of object; Agreement declared void. Unit –II Special contracts; Indemnity & Guarantee, Bailment and pledge;
Sep.	Unit –II - Law of Agency- Meaning Modes of creating Agency, Types of Agents, Personal Liability of an Agent and Termination of Agency.
Oct.	Unit-III Sale of Goods Act (1930): Definition, Sale & Agreement to sell, Types of Goods, Conditions & Warranties, Sale by Non-owners, Unpaid Seller, CIF, FOB and Ex-Ship Contracts.
Nov.	Unit IV Negotiable Instrument Act (1881) Definition of Negotiable instrument; Feature; promissory note; Bill of exchange cheque; Holder and holder in the due course; crossing of a cheque, types of erossing
Dec.	Unit IV Negotiation; dishonor and discharge of negotiable instrument, Information technology Act 2000 and cybererime Act 2012 related to e- Business only
Jan.	Unit V The consumer protection Act 2019: Main provision, Definition of consumer, consumer Disputes, Grievances redressal machinery; Indian partnership Act 1932, Limited Liabilities partnership Act 2008, Introduction of Intellectual property Right Act - Copyright, Patent & Trademark.
Feb.	Unit V Indian partnership Act1932, Limited Liabilities partnership Act 2008, Introduction of Intellectual property Right Act - Copyright, Patent & Trademark.



Govt. Nehru P.G. College Dongargarh

Teaching Plan: Dept. of commerce

Session: 2023-24

: B.COM.PART- 1

Subject: Business Communication

	Subject: Business Communication
Mont	n Proposed Work
july	Unit- I
	Introducing Business Communication: Definition, Concept and
	Significance of communication. Basic forms of
	communications; communication Models and Process: Principal of
	Effective communication; Theories of communication;
Aug.	Unit-1
	Self-Development and Communication Development of Positive pers
	attitude: 30001 analysis. Communication: Ethics Business Langue
Sep.	
	Corporate communication: Formal and Informal communication
	Judgeville Miscommunication (D
	Seminar.effective listening Principle of effective listening, Factor of
	effective listening exercises, Oral. Written and Video session, Audience analysis and feedback.
	Unit-III
Oct.	Writing skill Business letters Definition, Concepts, Structure,
	Advantage, Disadvantage. need and kinds of business letter. Essential
	Effective Business letter, Good news and bad New letters, Office
	memorandum WritingResume and letter of laboration Office
Nov.	
	Report Writing: Introduction to a Proposal, Short report and formal
£ .	
Dec.	Presentation, Unit IV
3	
	Factor effecting Presentation, Sales Presentation, Training Presentation conducting surveys, Speeches to Motivate, Dresentation
an.	conducting surveys, Speeches to Motivate, Presentation skill.
	Non- Verhal Aspects of
	Non- Verbal Aspects of communicating, Body Language: K
1	nterviews; Conducting Linterview; most let
eb. L	nterviews; Conducting I interview; mock Interview. Juit V
1	Modem for ins of Communication
i	Modem for ins of Communicating: Fax; E-Mail; video Conferencing; etc.
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Govt. Nehru P.G. College Dongargarh

Teaching Plan: Dept. of commerce

Session: 2023-24

Class: B.COM.PART-2

Subject : COST ACCOUNTING

Month	Proposed Work
july	Unit- I Introduction: Nature and scope of Cost accounting ;cost concepts and classifications; methods and techniques; Installation of costing system; concept of audit.
Aug.	Accounting for Material control; Concepts and techniques; Pricing of material issues; Treatment of material losses. Unit Test
Sep.	Unit –II Accounting for labour: Labour cost control procedure; Labour turnover; idle time and overtime; Methods of wage Payment – time and piece rates; Incentives schemes.
Oct.	Accounting for Overheads ;Classification and departmentalization ;absorption of overheads; Determination of overhead rates ;under and over absorption, and its treatment. Unit Test
Nov.	Unit-III Cost ascertainment: unit costing; job, batch and contract costing. Unit Test
Dec.	Unit IV Operating costing ;process costing –excluding inter- process profits, and joint and by – products. Unit Test
Jan.	Unit V cost Records; Integral and non – integral system; reconciliation of cost and financial accounts.
Feb.	Break even Point Unit Test



Govt. Nehru P.G. College Dongargarn

Teaching Plan: Dept. of commerce

Session: 2023-24

: M.com 3rd semester Class

Subject: ADVANCED COST ACCOUNTING

		Month
Month	Proposed Work	July
july	Unit- I	July
	Introduction – Cost Analysis consents and closeities in the	
	Introduction – Cost Analysis, consepts and classification, Materials control – Techniques Materials control.	oi
	Unit Test	
Aug.	Unit –II	Aug.
	Labour cost – Computation and control, Overheads – Accounting and Control.	
Sep.	UNIT -III	
	Job, Batch, Contract costing And operating costing. Unit Test	Sep.
Oct.	UNIT -IV	
	Process Costing, Joint products & By – products costing Uniform costing and Estimate costing Unit Test	Oct.
Nov.	UNIT -V	
	Budgetary control - Importance of hudget	-
	Budgetary control – Importance of budgets in accounting. Nature of budgetary control, Organization for budgetary control preparation zero base budgeting, performance Unit Test	Nov.
1		Dec.

Jan.

Feb.

Govt. Nehru p.g. college Dongargarh

Teaching Plan: Dept. of Commerce

class: B.Com - III

Session: 2023 -24

Subject : Auditing

Month	Proposed Work
luly	Unit -1 Introduction: Meaning and objectives of auditing; Types of audit; Internal audit. Audit Process: Audit program; Audit note books; Working papers and evidences. Unit Test
Aug.	Unit -2 Internal Check System: Internal control. Audit Procedure: Vouching: Verification of assets and liabilities. Unit Test
Sep.	UNIT-3 Audit of Limited Companies: a. Company auditor - Appointment, powers, duties, and liabilities. b. Divisible profits and dividend.
Oct.	Unit-3 Auditor's report - standard report and qualified report. d. Special audit of banking companies. e. Audit of educational institutions. f. Audit of Insurance companies. Unit Test
Nov.	Unit-4 Investigation: Investigation; Audit of non profit companies, a. Where fraud is suspected,
Dec.	Unit-4 b. When a running a business is proposed. c. Varifications & Valuation of assets Unit Test
Jan.	Unit-5 Recent Trends in Auditing: Nature and significance of cost audit; Tax audit; Management audit.
Feb.	UNIT-5 Company auditing - Qualification, Appointment, Resignation and liabilities. Unit Test



Teaching Plan: Dept. of Commerce

Class: B.Com - III

Session: 2023 -24

Subject : Indirect tax with GST

Month	Proposed Work
July	UNIT-LCustoms: Role of customs in international trade; Important terms and definitionsgoods; Duty; Exporter; Foreign going vessel; Aircraft goods; Import; Importer; Prohibited goods; Shipping bill; Store; Bill of lading; Export man Letter of credit; Kinds of duties - basic, auxillary, additional or coutervailing; Basics levyadvalorem, specific duties; Prohibition of export and import of goods, and provising notified & specified goods;
Aug.	Import of goods - Free import and restrictedimport; 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 cargo, export of baggage; Export of cargo by land, sea, and air rough.
Sep.	UNIT-II State Excise, CENVAT. Detail study of State Excise during coloring.
Oct.	scheme of GST, Meaning – Salient features of GST – Subsuming of taxes –Benefits of GST – Integrated GST GST Council: Structures Power and 5
vov.	registration, Persons not liable for registration, Persons liable for
ec.	Procedure relating to Levy: (CGST & SGST): Scope of supply, Tax liability on Mixed and Composite supply, Time of supply of goods and services, Value of taxable supply. Eway
n.	UNIT-V ASSESSMENT AND RETURNS - Input tax Credit: Eligibility, Apportionment, Inputs details of outward supplies and inward supplies. First return.
0. [Distribution of credit by Input Service Distributor (ISD) Furnishing details of outward upplies and inward supplies, First return, Annual return and Final return

Govt. Nehru P.G. College Dongargarh

Teaching Plan Commerce Department

Subject : Corporate Legal Framework

Session: 2023-24

Class: M.COM. - 1st semester

Month	Proposed Work	
uly	Unit –l The Companies Act, 1956 (Relevant Provisions): Definition, types of companies Memorandum of association; Articles of association; Prospectus; Share capital and membership.	
Aug.	UNIT –2 Meeting sander solutions-Company management; Managerial remuneration; Winding up and dissolution of companies.	
Sep.	UNIT-3 The Negotiable Instruments Act, 1881-Definition, types of negotiable instruments; Negotiation; Holder and holderin due course; payment in due course.	
Oct.	UNIT-4 Endorsement and crossing of cheque; Presentation of negotiable instruments.	
NOV.	UNIT-5 Legal Environment for Security Markets: SEBI Act. 1992 organisation and Objectives of SEBI	



. . . College Dongargarh

Teaching Plan Commerce Department

Subject: Managrial Economics

Session: 2023-24

Class: M.COM. - 1st

N.A.	Proposed World	
Month	Proposed Work	
July	Unit	
	Nature and Scope of Managerial, Economics: Objective of a firm; Economic theory and managerial theory; Managerial economist's role and responsibility.	Month
Aug.	UNIT -2	july
	Fundamental economic concepts-incremental principle opportunity cost principle, discounting principle. equimarginal principle.	Aug.
Sep.	UNIT-3	Sep.
	Demand Analysis: Individual and Market demand functions Law of demand; determinants of demand; Elasticity of demand-its meaning and importance, Price elasticity income elasticity and cross elasticity; Using elasticity in managerial decisions	Oct.
Oct.	UNIT-4	1
	Theory of consumer Choice: Cardinal utility approach, indifference approach, revealed preference and theory of consumer choice under risk; Demand estimation for major consumer durable and non-durable products; Demand forecasting tech. technique.	De Ja
VOV.	UNIT-5 Production Theory: Production function-production with one and two variable inputs, Stages of production; Economics of scale; Estimation of production function.	e
A STATE OF THE PROPERTY OF THE	Registration of the contract and the con	

Govt. Nehru P.G. College Dongargarn

Teaching Plan: Dept. of commerce

Session: 2023-24

Class: B.COM.PART-3

Subject : INCOME TAX

Month	Proposed Work			
july	Unit- I Basic Concepts: Income, agricultural Income, casual income, assessment year, previous year, gross total income, total income, person. Basis of change: Scope of total income, residence and tax liability. Unit Test			
Aug.	Unit –II Heads of Income: Salaries			
Sep.	Income from House Property Unit Test			
Oct.	Unit-III- Profit and gains of business or Profession, including provisions relating to specific business; Capital Gains. Unit Test			
Nov.	Income from other sources Unit IV Computation of Tax Liability: Set-off and carry forward of losses; Deduction from gross total income. Aggregation of income; Computation of Total Income. Unit Test			
Dec.	Calculation of Tax Liability of Individual and Hindu Undivided Family (HUF)			
Jan.				
Feb.	Administration: Authorities, appeals, penalties, Preparation of return of income - Manually and Online. Unit Test			



Subject: Business Mathematics

Month	Subject : Business Mathematics	
	Proposed Work	
July	1 Average: Meaning, characteristics, uses, merits & demerits and limitations	
	Simple and combined average, change in term value, speed average, weighted average, algebraic problems! Calculation of	
	weighted average, algebraic problems! Calculation of average in case	
	of large number of terms.	
	Percentage- Meaning and utility rules related	
	Percentage- Meaning and utility, rules related to percentage, number,	
	election, examination, income expenditure, consumption, mixture, problems related to population.	Month
Aug.	Ratio- Magning and ale	Septemb
	Ratio- Meaning and characteristics, comparison of ratios, division of	Septeme
	and a substitution of led humbers on basis of ratios and the	
	and deting the same number in terms of ratio acceptant	
	Proportion Problems related to 2	
	portion, Froblems related to Continuous Proposition	October
Con	The state of the s	OCTOBE.
Sep.	UNIT-II Commission and Brokerage- Meaning, types of business agency, cash and redemption transactions, commission has	_
	and redemption transactions, commission before and after bonus	and an in the second
	p. objection telefact to the word prior of	
	Wicdining did (VDes problems rolated to the	Novem
	The state of the s	
	The state of the s	
	The state of the s	1989
0-4		
Oct.	ONT-III Watrices-Meaning and definitions types of manifest	_
	transposed matrix Transposed matrix, Algebra of matrix,	
	Determinants-Meaning and definitions, minor, co-factor, calculation	
	acterimiants up to third order. Laplace's method something	Dason
	111501104	Decen
	Preparation of Invoice-Meaning, Contents, Advantages and types of	
Nov.	mvoice, iviethous of preparing invoice.	
INOV.	UNIT-IV Logarithms and Antilogarithms-Meaning, properties, fundamental	
Dec.	laws and types, practical use of logarithm and antilogarithm table	Janua
Dec.	Simple and Compound interest- Principal, amount, concept of real	Janua
	and nominal rate of interest, difference between simple interest and	
	compound interest, practical problems related to interest, time, rate,	
	principal and amount. Calculation of interest by third, tenth and tenth	
Jan.	rule and common multiplier method.	
Jan.	UNIT-V Vedic mathematics -Brief history of Vedic mathematics in Indian	Febr
	knowledge tradition, methods and practice of quick calculation of	
	addition, multiplication, division, square and square root of numbers	
	through Vedic mathematics, method of quick verification of answers	
Feb.	from Digit Sum.	Mar
reb.	Simultaneous equations-Meaning, characteristics, methods of solving	
	equations in two variables- Graphical, Substitution, Elimination and	
	Cross multiplication.	



Govt. Nehru P.G. College Dongargarh

Teaching Plan: Commerce dept.

Session:- 2023-24

Class: B. Com. 2nd year

Principles of Business Management Subject:

Month	Proposed Work		
September	Unit –I Introduction: Concept, nature, process, and significance of management; management roles (mint zber g); An overview of functional areas of management; Development and neo-classical systems; Concept approaches.		
October	Unit-II Planning: Concept, process, and types. Decision making – concept and bounded rationality; management by objective; corporate planning; Environment analysis and diagnosis; strategy formulations.		
November	Unit-III Organizing:: Concept, nature, process, and significance; Authority and resident relationships; Centralization and decentralization departmentation; Organization stracture - forms and contingency factors. Departmentation; Organization stracture - forms and contingency factors		
December	r Unit –IV Motivation and Leading People at work; Motivation – Concept; Theories Herzberg, McGregor, and ouchi; financial and non financial incentives.		
January	Leadership — Concept andLleadership Styles; Leadership Theories (Tannenb Schmidt .); Likert's system management . Communication — Nature ,Process ,Networks and Barriers, Effective Communication.		
February 	Unit V Managerial control :Concept and process; effective control system; technical control –traditional and modern.		
March	Management of change; concept, nature and process of planned resistance to change; emerging horizons of management in a environment.		

Govt. Nehru P.G. College Dongargarh

Teaching Plan: Dept. of commerce -

Session: 2023-24

Class: M.com 3rd semester

Subject: Accounting for managerial decisions

November	UNIT - 5 Reporting to Management: Objectives of reporting, reporting needs at different mana- gerial levels, Types of, reports, modes of reporting, reporting at different levels of management. Unit Test
October	UNIT - 4 Contemporary Issues in Management Accounting: Value chain analysis; Activity bases costing, Quality costing, Target and life cycle costing. Unit Test
September	UNIT - 3 Cash flow analysis and Fund flow analysis. Unit Test
July August	UNIT - 1 Break-even-analysis; Assumptions and practical applications of break- even-analysis; cost volume profit analysis, Decisions regarding sales-mix, make or buy decisions and discontinuation of a product line etc. Unit Test UNIT - 2 Analyzing financial Statements: Method, objects and ratio analysis. Unit Test



एम. ए. त्राय व्यमस्टर प्रश्न परं - गा कामकाजी हिन्दी एवं पत्रकादिता

हिन्दी के विभिन्न क्या कार्यालयीन हिन्दी बॉजमावा के उकार्य

पारिकापिक श्वाबरावली कम्प्यूटर - धून , उपयोजिता, नेव पेज इंटरनेट, हिन्दी आफ्टवेपर पेक्पा।

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पेउळादिता का क्वकप, हिन्दी पेउळादिता का 3/12/24 1

भीड, उन्हों, युट्ट सप्पा सामात्कार, प्रेय । र्यपादेन केला, जेस कामून अपयात्र स्ति। शीर्काक। पार्यक्रम पुनराष्ट्रीत ।

प्रमा प्रथम सेमेस्टर - हिन्दी

रकंघगुरा (मिटक - अपर्शक्त प्रमाद। भीक्ष्म सहानी - हाग्र्या। अंधायुग - धर्मनीय भारती। बीद्र की हड़डी - अग्रिवायान्य माणुर। एक दिन - लम्मीनायाया भिन्न भीने के कीड़े - भ्रयनेययय। तोलिए - उपेन्युनाय अष्टक।

पथ के बनाधी - ब्यूर्यकान्त किया की निराला | अष्टादेवी वर्मा - ब्यक्स महावा।

आवावा मसीरा - विल्लु उमाळ २। पूरुन भाग -। ओभ प्रकाश वास्त्रीकी।

री - पार्धक्रम की पुनराष्ट्रित।

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भिष्ट प्राधा प्रश्न पड - प्रम

पत्नवन , पत्राचार , अनुवार ।
एक होकरी अर अरही : आद्यवराव र्मपे।
वहे आई बाहन : अंग्री प्रेमचन्द ।

वंभिषठा, हिन्दी में वंशिष्तिकत्र ठा पारिभाषिक श्राल्यवली हिन्दी - अपिहत गर्शांश।

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हिन्दी में पदनाम, मुद्दावरे एवं लोकोक्तियाँ।
जानों किर एक बार: सुर्यकान (नेपार्ट) मित्राला।

अन्मिरिन : एकात भीवाका। शब्द भुद्धि , अर्थ भूक्डि। शब्द भान , पूर्याचवाची शब्द , जिलाम शब्द ।

अनेकाची शन्द, समम्तुत शन्द, अनेक शन्दों के लिए एक शन्द। भोलाराम का जीव – स्विशंकत्र प्रक्रार्थ।

जीप पर अवार हिल्लां - शहर जोशी। भानक भाषा - अर्थ व स्वक्ष्प।

अभानक भाषा। शिकागों से क्वामी विवेकानन्द का पछ। अत्य व अस्ति। असत्मा जासी।

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की एस. मी प्रश्न पर - I

भात्भूमि - आ. नरेन्द्रिया । -पोरी और जायिष्ट्रया - महातमा गांसी।

हिर्घाकुर - डा. खूबचन्द महोता। स्मापवा क्षेत्राता - वं. माद्यवराव सप्रे।

२ - हिन्दी भाषा और उसके विविद्य रूप। कार्याक्रपीन भाषा, भीडिया की भाषा, विन्त एवं व्यक्तिस्य की भाषा, भक्षीनी भाषा।

17 - हिन्दी की ज्यांक बेठांक कोरियां -अंता, बार्वनाम

मार - विशेषना , किया विशेषना । अभारत

मन्द्र - अधि एवं अधिनयां

नवरी - अनुवाद व्यवहार ।

विवरी - पाठ्यक्य की पुनराव्येना।

()Sinho नीलम सिन्हा अतिथि न्याष्ट्रपाता टिन्ही

Teaching Plan 2023 24 Money Banking and Public uly 2013_ Basie concept - Money earling and frenetions, Grasham's low- orientity theory of moneyash transaction and Cosh balance pproaches: value of noney. iflation, deflation and vollation yes, conses and effects on different sectors of the clowy. highest 2003 - Depend and Pull and cost puch, gatlation, massurs 6 control guflation, Philips curve Concept of domortete zation. Compartial banking - Meatering and dyper - frenchion of commercial banking. The Process of credit Creation purpose and limitation September-2023 - Evolution of Commercial harking ofter Independ

Halienale Zelton, Then Chay Central bank, amentitative an analititative Methods of Cred Bank rete Policy, open May Aerestion, variable reserve, and Scleetive Methods, Role trunction of the Reserve La of Lindia Objectives and les of Monetory Policy with s reference to gudia.

October 2023 - Meaning and. of Public Finance Distinctio between Private and Public + Public goods V/s Private goods The Permise of Maximum so advantage. Pole of the govern in elemonie 9 cti 4 tier. Parle Exependiture _ Meaning, Classifi and Principle of Public expendit Movember 2003 - Tsends in Pu Exeptenditure and Carried w

uslie exeplenditure in Indea. ourles of Public Sevorcee-taxative earcing Careon and classification taxes Division of taxe burden. elephber-2003 - The bexeetit and ility to Pay opproaches-Empad a suidente of taker, Taxable speciety Effects of taxation, avateristics of good tax system Josephary 2024 - Equaty and ustice in Toxation, Majartsends ten reverse of the Contral d state government in gadia. iblee debt and financial. rainistration - sources of Public orrowing, Effects of Public elst, Methods of delst redemption ebsuary sory - The Pieblie budget Kinds of budget Economie end Functional Clarification of the A budget? DR. R. R. KOCHE Asstt. Professor & H.O.D. Govt. Nehru P.G. College Dongargarh Distt.- Rajnandgaon(C.G.) Economics

Deposit of Economics
Deposit park I Micro Economics paper-I mth- July ws Insoduction - Defination, regture and Scor of Econethics, Methodology in Economics. Villety Cordinal nd ordélial approaches. Indifférence ure consumers epuléboium (Hicks ad slutuskey, Coiffin goods, Compensites emand, DeMand - Low of demand. ignst 2023 - Elesticity of domaid sice, sucome and elesticity exercers surplus, Engel course. Theory of Production and costroduction decision, Production Huntier, Iso- Mant, factor-substitution Low of variable Proportion, Return to scale, Economies of scale Different Concept of cost and thier pro-September 2003 E Mulli LASSITA. Professor & H.O.D.

Govt. Nehru P.G. College The firm Ezepansion Patoist. - Reigandgaon(C.G.) Structure Perfect

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Movember 2013

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ick bearing and strainty hersies. Welfare Ezouomics. soblems of Measuring Welfare. bonary sory -tassical welfare elonophies, exetos criteria, value Judge Ment. meent of a social welfare novation, Risk bearing and test function, compensation ineiple - Kalder, Micks Mah DR. R. R. KOCHE Asstt. Professor & H.O.D. Govt. Nehru P.G. College Dongargarh Distt.- Rajnandgaon(C.G.)

Teaching Plan (2003-24)) Bospart III seveleprient and EvisonMental Economics it! July 2073 Economics growth and evelopment, factor effecting economic south Clasion, capital and technology veloped and suder developed evenions overty - absolute & relative, greian model of extonomic growth, rahale Newber model of elonomic growth palanced and onbalanced growth, tugust 2003 - Propietus of Population. and growth Pattern of papulation. theory of deprographie transaction, Papulatien, Poverly and environment, scurpeters theory of economic growth, theory of Big-push, Helson therey of low showe equilibrium there thereby of cristical miximum efforts

- September sons - Harros and growth model, sholow's Medy economic growth Meader classical Models, Mrs John Ro proath Model. october 2003 - A Lewis the of uniented stepply of Los, Environmental use environments disruption as an allocation of Valution of chrisenmental done Land, Water, air & Forest. November 2003 - preventien con and abatement of papulation co of Policy in gustruments inde Countries environmental legis Sudicators of Stistanable devel Chrisenmental Accounting. December 2003 - Concept of Till Capital - Food Secretity, Edulation Pale of Health and relitabilition. Rale agriculture en élévoure de velof Joxenary 2004_

utivity in agriculture, New techon Susfaiteable agriculture. ory - (Habalization and pitalture growth. the choice of enreèques, appropriate techréology emplayment. DR. R. R. KOCHE Asstt. Professor & H.C D. Economics Govt. Nehru P.G. College DR. R. R. KOCHE Professor & H.O.D. **Economics** Govt. Nehru P.G. College Dongargarh Distt.-Rajnandgaon(C.G.)

Teaching Plan-2023-24 Department of Economics

SEMESTER-I Micro Economics

Paper - I

Month	Teaching syllabus
July 2023	Unit – I - Introduction: Concept of Equilibrium, Economic Models, Neo Classical Demand Analysis. Elasticity of Demand (Price, Income & Cross), Elasticity of supply, Unit test.
August 2023	Unit – II - Indifference curve, Marginal Rate of Substitution. Income & substitution effect, Hicks and Slutsky theorem, Revealed preference theory. Hicks's Revision of Demand, Hicksian Consumer surplus, Unit test.
September 2023	Unit-III Theory of Production Production function, The short period & long period production function, the law of variable proportion (isoquant approach), Marginal rate of Technical Substitutions, Returns to a factor and returns to scale. Expansion path, Cobb-Douglas Production function, CES production function, Unit test.
October 2023	Unit-IV Theory of cost and Revenue analysis, Perfect Competition equilibrium of firm in Perfect Competition. Monopoly short run and long run equilibriums, price discrimination under monopoly competition, monopoly control and regulation. Comparison between monopoly and perfect competition, Unit test.
November 2023	Unit - V Monopolistic Competition - price and output determination under monopolistic competition, Group equilibrium, theory of excess capacity. Oligopoly non-collusive oligopoly model: The kinked demand curve. The collusive oligopoly - Cartels: joint profit maximization or perfect cartels, price leadership: the low cost price leadership model, Unit test.

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Teaching Plan- 2023-24 Department of Economics

Macro Economics

Paper – II

Month	Teaching syllabus			
Month July 2023	123 Unit - 1 - Nat John Measurement and Accounts - Concept of Nat John Measurement and John John Measurement and John John Measurement and John John John John John John John John			
August 2023	Unit – II - Classical Theory of Employment, S a y's L a w of Market, Principle of Effect ive Demand, Keynesian & Pigou Theory of Employment, Comparison of Classical and Keynesian Models. National Income Determination of Keynesian Model - Two, Three and Four Sector Economy.			
September 2023	Unit-III Consumpt ion Funct ion- Keynesian Psychological Law of Consumpt ion, Shor t Run & long run Consumpt ion Funct ion. Theory of Consumpt ion Funct ion – Absolute Income Hypothesis, Duesanbery's Relat ive Hypothesis, Life Cycle and Permanent Income Hypothesis, Unit test.			
October 2023	Unit-IV Investment Funct ion- Marginal Efficiency of Capital and Investment. Saving and Investment Equal ity, Multiplier and its working, Accelerator and its working, Super - Multiplier. Supply of Money, Determinants of Money Supply, Measurement of Money supply, Control of Money Supply. High Powered Money, Money Multiplier, unit test.			
November 2023	Unit - V Demand for Money – Fisher and Cash Balance (Cambr idge) Approach, Fundamental Equation of K e yn e s . F r i e dman n's re-formulat ion of the quant i ty theory of money. Post Keynesian Approach to Demand for Money- Pat inkin, Baumol's, James Tobi n, Frie dman, and Gurle y & Shaws Approaches, unit test.			

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Asstt. Professor & H.O.D.
Economics
Govt. Nehru P.G. College
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Teaching Plan- 2023-24 Department of Economics

SEMESTER-I

Statistical and Quantitative Methods

Paper	Ш
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	Teaching syllabus
Month July 2023	Unit - I - Skewness - Symmet rical and asymmet rical distribution, Measurement of Correlation, of Skewness - Karl Perason Bowley. Simple Correlation- Measurement of Correlation, of Skewness - Karl Perason Bowley. Simple Correlation & Spearmen's rank correlation.
July 2020	ation. Coefficient of determination of correlation, unit test.
August 2023	sion coef ficient, regression equations, or many single analysis (Up to three variables only), Standard Er ror of the est imates of simple regression analysis. Interpolation and Extrapolation - Method of Fitting a Parabolic Curve, Newton's Advancing Difference Method, Direct Binomial Expansion Method and Lagrange 's Method, unit test.
September 2023	Unit- Associat ion of Attributes - Meaning and types of association, Consistency of data, Methods of determining association, Methods of Comparison Proportion Coefficientof Association using Yule's method. Probability theory- Meaning and definition, Permutation and Combination, Types of events, Measurement of Probability, Addition and Multiplication theorem, Conditional Probability, unit test.
October 2023	Unit-IV - Index Number_ Const ruct ion of Index numbers, simple and weighed Index numbers, Fisher's Ideal Index number, Reversibility Test, Time Reversibility Eactor Reversibility, Chain Index No, unit test.
November 2023	Unit - V - Time Ser ies Analysis - Components of Time Ser ies, Measurement of long- term Trend, Shor t per iod osci l lat ion, semi -average method, moving average method, Graphical Presentat ion, unit test.

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Distt.- Rajnandgaon(C.G.)

Teaching Plan- 2023-24 Department of Economics

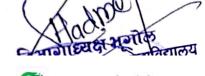
SEMESTER- I INDIAN ECONOMY Paper -IV

	Teaching syllabus
Month	the state of the state of the state of the state of
	St ructure of GDP, Role of Pr imary, Secondary and Ter t iary Sectors in GDP, Nat ional Income and Per Capi ta Income, Growth Rates of GDP and Per Capi ta Income. unit test.
August 2023	Composi t ion, Li teracy and Densi ty of Fopulation, Migratics, Urbanization and Civic Ameni t ies, Occupational Structure, National Population Policy, Demographic Features of Chhat t isgarh State, unit test.
September 2023	Unit-III, Agr icul tural Development in Indian Economy – Agr icul tural Growth and Product ivi ty, Causes of Low Product ivi ty and Measures to Increase i t, Agr icul tural Product ivi ty, Causes of Low Product ivi ty and Measures to Increase i t, Agr icul tural Product ivi ty, Causes of Low Product ivi ty and Measures to Increase i t, Agr icul tural Product ivi ty and Reforms in India, The Market ing and Warehousing, Inst i tu t ional St ructure - Land Reforms in India, The Green Revolut ion, Nat ional Agr icul tural Product ivi ty in India, Rural credi t in India, NABARD and i ts role in rural credi t, unit test.
October 2023	Unit-IV Indust r ial Development in India, Indust r ial Pol icies of 1956 and 1 991, Publ ic Sector Enterpr ises and their Per formance, Pr ivat izat ion and Dis investment, Smal I Scale Sector and Minor Medium Enterpr ises, Unorganized Sector and Informal isat ion of the Indian Economy and Knowledge Economy, unit test. Unit - V - Inf rast ructure- Inf rast ructure and Economic Development, Energy, Power, Pard Pai Iway Water and Civil Aviat ion in India, Pr ivate Investment
November 2023	Transport at 10n- Road, Rai Way,
	그 가장 생각 경기 가는 그 이 가는 그는 그가 그 그는 그를 보고 있었다. 그렇게 가는 아이라는 📢 그래요는 이 중요한다. 그렇다

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Distt.- Rajnandgaon(C.G.)

Teaching Plan- 2023-24 Department of Geography M.A. Geography- I Semester

		PAPER- I -	PAPER- II -	
Month	Unit	GEOMORPHOLOGY	Climatology	
July 2023	Unit – I	Nature and scope of Geomorphology; Fundamental concepts; Interior of the earth; Earth movement: epeirogenic and orogenic movements With reference to the evolution of the Himalaya: Forces of Crustal instability, Isostasy, Geosyncline, Plate tectonic, Mountain building, Earthquake and Vulcanicity. Exogenic processes: concept of gradation; Agents and	Nature and scope of climatology and its relationship with meteorology; composition of atmosphere; Insolation, heat balance of the earth, stability and instability, greenhouse effect, vertical and horizontal distribution of temperature. Jet stream; General circulation in the	
ugust 2023	Unit – II	processes of gradation: weathering, wasting and erosion, aggradation; Climatic Geomorphology and morphogenetic regions; slope evolution, Arid Semi-	atmosphere; Acid rain; concept of air masses and Front. EL Nino and La Nino. Monsoon winds and cyclones.	
September 2023	Unit - III	Arid and Karst topography. Concept of Geomorphic cycle and its controversy; Dynamic of glacial and pergiglacial processes and resulting landforms, Complications of fluvial geomorphic cycle and resulting landforms. Practical Starts	The application of general principles of elementary physical and synoptic meteorology to the study and classification of climate. Climatic classification of Koeppen and Thornthwaite. Major climate of the world- tropical, temperate, desert and mountain climate. Practical Starts	
October 2023	Unit - IV	Geological structure and landform: development of landscape and drainage on uniclinal, folded and doma structures and Erosion surfaces, Applied Geomorphology.	Climatic changes during geological and historical times, evidences, possible causes, global warming, Applied climatology.	
November 2023	Unit-V	Practical complete and Unit Revised	Practical complete and Unit Revised	
December 2023		Semester Exam		



Teaching Plan- 2023-24 Department of Geography M.A. Geography- I Semester

Vonth	Unit	PAPER- III - Geographical Thought	PAPER- IV- Geography Of India
July 2023	Unit – I	The Field of geography, its place in the classification of science, geography as a social science, and natural science. Definition, scope and functions of geography; Geography as science of relationship, as science of areal differentiation, as spatial science, Spatial Organization, Geography and environmentalism: forms of mannature relationship and current view; Dualism in geography; Regional Concept.	Physical and Biological elements in the Geography of India: Geological structure, relief, climate, Drainage, vegetation and soils.
August 2023	Unit – II	The growth of geographical knowledge from earliest times up to the 15th century. Contributions of Greek and Roman thinkers. Geographical information in Ancient Indian literature. The Great Age of Maritime Discovery and Exploration. Contributions of various schools of thought in modern Geography: (i) German School - A.V. Humbolt, Carl Ritter. Friedrich Ratzel (ii) French School - Vidal-De-Blache, Jean brunhes (iii) British School - H.J. Mackinder, L.D. Stamp (iv) American School - E.C. Semple, G. Taylor	Agriculture: Major characteristics and problems, Impact of infrastructural and institutional factors on agriculture. Important crops-wheat, rice, cotton, sugarcane, oil-seeds, tea and coffee, Agricultural regions. Green revolution, Agro-climatic regions.
September 2023	Unit - II	Scientific explanations: routes to scientific explanation (inductive/deductive); Type of explanation: cognitive description, cause and	gas. Hydroelectricity and Atomic energy. Mineral resources with special reference to iron ore, manganese and bauxite. Industrial development with special reference to iron and steel, cement, cotton, jute, sugar and
October 2023	Unit - I	Responses to positivism, behaviourlism and	Regional division of India: Purpose and Methodology. Major schemes o regions of India: O.H.K. Spate and R.L. Singh. Physical and cultural geography of Chhattisgarh State.
November 2023	r Unit-	Practical complete and Unit Revised	Practical complete and Unit Revised
Decembe 2023	r	Semester Exam	n

Teaching Plan- 2023-24 Department of Geography M.A. Geography- III Semester

		Unit	Paper- I	Paper – II
S.N.	Months		Population Geography	Biogeography And Ecosystem
1	July	Unit – I	Definition and scope of Population Geography. Relation of Population Geography with other subjects of social sciences. Historical development of Population Geography in western countries and in India. Sources of population data, Census and its history.	Definition and scope of Biogeography Environment, Habitat and Plant-animal association, Biome Types.
		Unit -	Distribution of Population: The concept	Elements of plant geography,
2	August	II	of population density and its types. Factors affecting population distribution. Distribution & Density of population in the world with special	distribution of forests and major communities. Plant successions in newly formed land forms. Zoogeography and
			reference to Europe, Asia and India. Growth of population: Measure of decennial and annual rates of population growth, prehistoric and modern trends of population growth in the world. Regional aspect of population growth in India. Population theories. Demographic transition.	its Environmental Relationship. Palaeo botanical and Palaeo climatological records of environmental change.
3	September	Unit - III	Population composition in terms of age and sex, rural, urban residence, educational status and occupational structure. Significance of these elements in population analysis, factors affecting their composition in population, broad world patterns and detailed spatial patterns in India. Fertility and Mortality of population: Significance and factor. Indices and rates. World pattern and pattern in India. Human Development Index and its Components. practical work start.	hydrological cycle, food chain and food webs. Majo terrestrial ecosystems of th world: agriculture, forest grassland and deser Population growth an environment.
4	October	Unit - IV	characteristics and types. Methods of estimating value of internal migrations of internal migrations of internal migration in India.	f Conservation. Preservation and conservation of the ecosystem through resour management, Environment
			Resource regions. Population Regions	conference, the Earth summ
			regions of India, population policies of	Forest Act. Environme
			India.	Protection Act and Natio Environment Tribunal Act).
	November	Unit-V		Protection Act and Natio Environment Tribunal Act).

Teaching Plan- 2023-24 Department of Geography M.A. Geography- III Semester

S.N.	Months	Unit	Paper- 🔟	Paper- 🅦
S.1			Settlement Geography	Research Methodology
	July	Unit – I	Meaning, Objectives and Scope of Settlement Geography; Evolution, Distribution, Types and Patterns of Rural Settlements; Rural House Types; Rural Service Centers.	Historical development of remote sensing as a technology - Relevance of remote sensing in Geography - Concepts and basics: Energy source, energy and radiation principles, energy interactions in the atmosphere and earth surface features, remote sensing systems: platform sensors and radiation records. Microwave sensing interpretation of SLAR imageries, thermal imageries.
2	August	Unit – II	Evolution and growth of urban settlements; The Geographical setting of Urban Centers: Site, Situation and Location	Remote Sensing Satellite: platforms LANDSAT, SPOT, NOAA, RADARSAT, IRS, INSAT: principles and geometry of scanners and CCD arrays, orbital characteristics and data products - MSS, TM, LISS I & II, SPOTPLA & MLA, SLAR.
3	September	Unit - III	Rank- size-relationship; Cities as Central Places, Central Place Theory, Growth Centre Theory.	Image Processing: Types of imagery, techniques of visual interpretation, ground verification transfer of interpreted thematic information to base maps-digital processing rectification and restoration, image enhancement - contrast manipulation, Classification Supervised and Unsupervised, post classification analysis and accuracy assessment
4	October	Unit - IV	City- Country Relationship: Umland, Rural-Urban Fringe. practical work start.	Applications: Air photo and imaginterpretations, arid mapping lanuse and land cover, land evaluation urban land use, landform and it processes, weather studies an studies of water resource integration of Remote Sensing and GIS. Remote sensing and hazar management, remote sensing arenvironmental management.
5	November	Unit-V	practical work complete . And unite rewise.	
6	December	Semester Exam	Semester exam .	

Session - 2023-24 Leaching Plan M. A English first Sem. Paper I (poetry I) ith thit Lopic Geobby Chaucer : Prologue to the Canterbury Lales - Edmend Spenser: - Epithalanian John Donne: Death, Be not broud Shit II Estalie Valediction: Forbidden Mourning Andrew Maruel: Lo His Coy Mistress, An Horation ode Upon Cromwell's Return from Fredand, on exortation stoker Smil II John Millon: Paradise Jost Book-I evember Unit. 14 John Dryden: Mac- flecroe Alexander Pape: The Raper of the Simolation Revision & Ractice Coksinha

Session - 2023 - 24 Teaching Plan M. & English, first Sem. Paper II. (Drang - I) Logic Unit-I Christopher Marlowe: The tragical History of Dr. Faustus Ben Johnson: The Alchamist John Mebster: The Duches of Malki igust unit-II William Shahespeare: Nacheth extender Unit-III blillian Shakespeare: Hamlet dober that Milliam Shakespeare. The Tempest wender unit-1x Illilliam Shakespeare: As you like it. Jecember Annotation, Revisions fractice Gksinha

		rincipal/IQAC	Work Assigned By Principal/IQAC		19-21 - 19-21 - 19-21	03:00 - 05:30
B.A. II- YEAR (ENG. LIT.)	B.A. III- YEAR (F.C. ENG.)	B.A. II- YEAR (ENG. LIT.)	B.A. I- YEAR (ENG. LIT.)	B.A. I- YEAR (ENG. LIT.)	B.A. II- YEAR (ENG. LIT.)	02:20 - 03:00
B.A. III- YEAR (ENG. UT.)	B.A. II- YEAR (F.C. ENG.)	B.A. III- YEAR (ENG. LIT.)	M.A. ENG. 3RD SEM	M.A. ENG. 3RD SEM	B.A. III- YEAR (ENG. LIT.)	01:40 - 02:20
M.A. ENG. 1ST SEM	B.A. I- YEAR (F.C. ENG.)	M.A. ENG. 1ST SEM	M.A. ENG. 1ST SEM	M.A. ENG. 1ST SEM	M.A. ENG. 1ST SEM	01:00 - 01:40
			BREAK			12:40 - 01:00
M.A. ENG. 3RD SEM	B.A. I- YEAR (ENG. LIT.)	M.A. ENG. 3RD SEM	M.A. ENG. 3RD SEM	M.A. ENG. 3RD SEM	M.A. ENG. 3RD SEM	12:00 - 12:40
M.A. ENG. 1ST SEM	M.A. ENG. 1ST SEM	M.A. ENG. 1ST SEM	B.SC. III- YEAR (F.C. ENG.)	B.SC. II- YEAR (F.C. ENG.)	M.A. ENG. 1ST SEM	11:20 - 12:00
M.A. ENG. 3RD SEM	M.A. ENG. 3RD SEM	M.A. ENG. 3RD SEM	B.COM. III- YEAR (F.C. ENG.)	B.COM. II- YEAR (F.C. ENG.)	M.A. ENG. 3RD SEM	10:40 - 11:20
SATURDAY	FRIDAY	THURSDAY	WEDNESDAY	TUESDAY	MONDAY	TIME / DAY
		-2023-24	Time-Table, Session – 2023-24	Tim		
		nglish	Department Of English	De		
	garh	e, Dongargarh	Govt. Nehru P.G. College,	Govt. Nehr		and the second



हेमचंद यादव विश्वविद्यालय, दुर्ग (छ.ग.)

बी.ए. द्वितीय वर्ष

इतिहास

प्रश्न पत्र - प्रथम

प्रश्न पत्र का नाम — भारत का इतिहास 1206 ई. से 1761 ई. तक

काई-1 जुराहि 1. सल्तनतकालीन एवं मुगलकालीन इतिहास के स्त्रोत 2. दास वंश— ऐबक, इल्तुतमिश, बलबन

3. खिलजी वंश— अलाउद्दीन खिलजी—सैनिक उपलब्धियां, राजस्व व्यवस्था एवं बाजार नियंत्रण 4. तुगलक वंश— मोहम्मद बिन तुगलक,

इकाई-2

- 1. मुगल साम्राज्य की स्थापना बाबर एवं हुमायूँ
- 2. शेरशाह सूरी का प्रशासन

3. अकबर की राजपूत नीति

रित मा 4. मुगल शासकों की धार्मिक नीति – अकबर से औरंगजेब तक

इकाई-3

- 1. मुगल प्रशासन
- 2. मध्यकालीन सामाजिक एवं आर्थिक दशा

अम्रवट

- 3. भक्ति आंदोलन
- 4. सूफीवाद

–1. मध्यकालीन साहित्य, कला एवं स्थापत्य

2. विजयनगर राज्य

- 3. बहमनी राज्य
- 4. शिवाजी का प्रशासन

- इकाई-5 जिन्दी 1. पेशवा- बालाजी विश्वनाथ, बालाजी बाजीराव
 - 2. पानीपत का तृतीय युद्ध— कारण एवं परिणाम 3. मराठों के अधीन छत्तीसगढ़ – बिम्बाजी भोसले

4. छत्तीसगढ़ में मराठा प्रशासन

हेमचंद यादव विश्वविद्यालय, दुर्ग (छ.ग.)

बी.ए. द्वितीय वर्ष इतिहास प्रश्न पत्र - द्वितीय विश्व का इतिहास 1890 ई. से 1964 ई. तक

विलियम द्वितीय की विश्व राजनीति 2. अफ्रीका का विभाजन

3. जापान का आधुनिकीकरण— मेईजी पुनर्स्थापना एवं जापान का आधुनिकीकरण

न्हें-२५०० ४. रूस-जापान युद्ध : कारण एवं परिणाम

5. चीन अफीम युद्ध एवं चीन की क्रांति, साम्यवाद

6. पूर्वी समस्या -बर्लिन कांग्रेस, युवा तुर्क आंदोलन

7. बाल्कन युद्ध : कारण एवं परिणाम

वाद-उ रितिभ्वेत. प्रथम विश्व युद्ध : कारण एवं परिणाम

2. वर्साय की संधि

3. रूस की क्रांति 1917 ई.

4. फासीवाद - मुसोलिनी

ाई-4प्रमुद्धार १ नाजीवाद –हिटलर

2. जापान का सैन्यवाद

<u>क्साम्ब</u>ट3. राष्ट्रसंघ : स्थापना एवं विल्सन के 14 सूत्र

4. द्वितीय विश्वयुद्ध : कारण एवं परिणाम

कि पिरिष्य 1. संयुक्त राष्ट्र संघ – स्थापना एवं संगठन, उपलिख्यां

2. शीत युद्ध

पं-ावरी 3. गुट निरपेक्ष आंदोलन एवं पंचशील सिद्धान्त

4. विश्व शांति की चुनौती— कोरिया एवं फिलीस्तीन समस्या

फरत्री 5. एक ध्रुवीय विश्व





शासकीय नेहरू स्नातकोत्तर महाविद्यालय डोंगरगढ़, जिला राजनांदगॉव (छ.ग.)

टीचिंग प्लान - सत्र .2023-24...

कक्षा - बी.ए. भाग एक

प्रश्न पत्र – प्रथम – राजनीतिक सिद्धांत

क्र	माह	ईकाई	पाठ्यकम
1	जुलाई	ईकाई — 1	राजनीतिक विज्ञान का अर्थ – परिभाषा, कार्य, महत्व, राजनीतिक विज्ञान के रूप
2	अगस्त	ईकाई — 1	शक्ति / सत्ता, प्रभाव का अर्थ, परिभाषा, विशेषताएं, प्रकार, व्यवहारवाद एवं उत्तर
	Alternative		व्यवहारवाद
3	सितम्बर	ईकाई – 2	राज्य एवं उसके आवश्यक तत्व, मार्क्सवाद का सिद्धांत, सावयविक सिद्धांत
4	अक्टूबर	ईकाई — 3	सम्प्रभुता एवं उसकी बहुलवादी आलोचना, अधिकार का अर्थ, प्रकार, सिद्धांत, स्वतंत्रता
			का अर्थ, परिभाषा, प्रकार, विशेषताएं एवं संरक्षण
5	नवम्बर	ईकाई-3	समानता का अर्थ, प्रकार एवं स्वतंत्रता से संबंधित, प्रजातंत की परिभाषा, व्यापक अर्थ,
			परिभाषा एवं सफलता
6	दिसम्बर	ईकाई – 4	शासन के प्रकार, एकात्मक एवं संघात्मक, संसदीय वं अध्यक्षात्मक, निरंकुशतन
7	जनवरी	ईकाई – 4	शासन के अंग, कार्यपालिका, व्यवस्थापिका, न्यायपालिका, शक्ति पृथककरण का
			सिद्धांत
8	फरवरी	ईकाई – 5	लोक कल्याणकारी राज्य, दल पद्यती, अर्थ एवं परिभाषा का प्रकार, दबाव समूह,
U			प्रकार , सामाजिक परिवर्तन, विशेषताएं



शासकीय नेहरू स्नातकोत्तर महाविद्यालय डोंगरगढ़, जिला राजनांदगॉव (छ.ग.)

टीचिंग प्लान - सत्र .2023-24

क्षा – बी.ए. भाग–दो

प्रश्न पत्र – द्वितीय – तुलनात्मक शासन एवं राजनीति

		ईकाई	पाठ्यकम
क	माह		ब्रिटिश संविधान, विकास एवं विशेषताएं
1	जुलाई	ईकाई — 1	
2	अगस्त	ईकाई – 1	ब्रिटेन की कार्यपालिका, व्यवस्थापिका, न्यायपालिका
3	सितम्बर	ईकाई — 2	संयुक्त राज्य अमेरिका का संविधान, विशेषताएं, कार्यपालिका, व्यवस्थापिका, न्यायपालिका
4	अक्टूबर	ईकाई — 2	शक्ति पृथक्करण व नियंत्रण, संतुलन का सिद्धांत
5	नवम्बर	ईकाई— 3	स्वीटजरलैण्ड का संविधान – विशेषताएं, कार्यपालिका, व्यवस्थापिका एवं न्यायपालिका
6	दिसम्बर	ईकाई – 4	चीन का संविधान – विशेषताएं , कार्यपालिका, व्यवस्थापिका, न्यायपालिका, साम्यवादी दल
7	जनवरी	ईकाई – 5	तुलनात्मक राजनीति का अर्थ, परिभाषा, ईस्टन का व्यवस्था सिद्धांत, आमण्ड का संरचनात्मक प्रकार्यात्मक उपागम,
8	फरवरी	ईकाई – 5	राजनीतिक विकास, राजनीतिक सामाजिकरण, राजनीतिक संस्कृति की अवधारणा



शासकीय नेहरू स्नातकोत्तर महाविद्यालय डोंगरगढ़, जिला राजनांदगॉव (छ.ग.)

टीचिंग प्लान - सत्र .2023-24..

कक्षा - बी.ए. भाग-तीन

प्रश्न पत्र – प्रथम – अंतर्राष्ट्रीय राजनीति

क्र	माह	ईकाई	पाठ्यकम
1	जुलाई	ईकाई — 1	अंतर्राष्ट्रीय राजनीति का अर्थ, प्रकृति, क्षेत्र
2	अगस्त	ईकाई – 1	अंतर्राष्ट्रीय राजनीति के अध्ययन के उपागम
3	सितम्बर	ईकाई – 2	अंतर्राष्ट्रीय राजनीति के विभिन्न सिद्धांत – शक्ति, परिभाषा, तत्व
4	अक्टूबर	ईकाई — 2	अंतर्राष्ट्रीय राजनीति के विभिन्न सिद्धांत – शक्ति संघर्ष , शक्ति संचय, शक्ति वृद्धि
5	नवम्बर	ईकाई— 3	शक्ति संतुलन की अवधारणा, — सैद्धांतिक लाभ एवं मूल्यांकन, शांति एवं सुरक्षा की अवधारणा, — सामूहिक सुरक्षा सिद्धांत
6	दिसम्बर	ईकाई – 4	राजनय परिभाषा, प्रकार, कार्य उद्देश्य, एवं साधन , निःशस्त्रीकरण का अर्थ, परिभाषा, विकास एवं निःशस्त्रीकरण के मार्ग
7	जनवरी	ईकाई — 5	अंतर्राष्ट्रीय राजनीति के नये प्रतिमान
8	फरवरी	ईकाई – 5	पर्यावरण , वैश्विकरण, मानव अधिकार



शासकीय नेहरू स्नातकोत्तर महाविद्यालय डोंगरगढ़, जिला राजनांदगॉव (छ.ग.)

टीचिंग प्लान - सत्र .. २०२३-२५.

ग एम.ए. तृतीय सेमेस्टर प्रश्न पत्र – तृतीय – शोध प्रविधि भाग –एक

me	ईकाई	पाठ्यकम
माह		सामाजिक शोध की प्रकृति, महत्व एवं उपयोग शुद्ध एवं व्यवहारिक शोध समस्या
जुलाई	ईकाई – 1	की गट्टाना शोध अधिकरण जाकलाना का निर्माण
		सामाजिक सर्वेक्षण – उद्देश्य , महत्व, प्रकिया, तथ्य संकलन, की तकनीकी, तथ्यों
अगस्त	ईकाई – 2	के प्राथमिक एवं द्वितीय स्त्रोत
सितम्बर	ईकाई-3	अवलोकन पद्यति , अर्थ, परिभाषा, महत्व, कारण, प्रकार
अक्टूबर	5-15 3	साक्षात्कार पद्यति, प्रश्नावली एवं अनुसूची
नवम्बर	ईकाई - 4	ी केस स्टडी, क्षेत्रीय अध्ययन

टीचिंग प्लान - सत्र .. २०२३: २.५.

कक्षा - एम.ए. तृतीय सेमेस्टर

प्रश्न पत्र – चतुर्थ – लोक प्रशासन, भाग-एक

कक्ष	Г —	एम.ए.	तृतीय समस्य	पाठ्यकम असहयोग आंदोलन ,सविनय
क्र	1	माह	ईकाई	पाठ्यकम पाठ्यकम छत्तीसगढ़ में राष्ट्रीय आंदोलन – 1855 से 1947 – असहयोग आंदोलन ,सविनय
1		जुलाई	ईकाई – 1	अवज्ञा आदिलिन, आर गारा
2		अगस्त	ईकाई-2	प्रमुख नहारुए। खुबचंद बघेल का योगदान खुबचंद बघेल का योगदान छत्तीसगढ़ राज्य निर्माण हेतु आंदोलन एवं राज्य निर्माण छत्तीसगढ़ राज्य निर्माण हेतु आंदोलन एवं राज्य निर्माण छत्तीसगढ़ में स्थानीय स्वशासन – ग्राम पंचायत, नगर पंचायत एवं नगर निगम छत्तीसगढ़ में स्थानीय स्वशासन – ग्राम पंचायत, नगर पंचायत एवं नगर निगम
	3	सितम्बर	ईकाई - 3	छत्तीसगढ़ में स्थानार एवं स्थिति का संगठन, कार्य अधिकार एवं स्थिति का संगठन, कार्य अधिकार एवं स्थिति
	4	अक्टूबर	ईकाई - 3	अन्तसंची के अर्पाता ते के प्रमुख निधारक तत्प पूर्व
	5	नवम्बर	ईकाई – 4	क्लीसगढ़ में जिला प्रधायत न जिला प्रधायत राष्ट्रिक

शासकीय नेहरू स्नातकोत्तर महाविद्यालय डोंगरगढ़, जिला राजनांदगॉव (छ.ग.)

टीचिंग प्लान - सत्र . २०२५-२५

ब्र - एम.ए. चतुर्थ सेमेस्टर

प्रश्न पत्र – प्रथम – अंतर्राष्ट्रीय राजनीति के समाकालीनतम मुद्दे

माह	ईकाई	पाठ्यकम
जनवरी	ईकाई - 1	अंतर्राष्ट्रीय राजनीति के असंलग्नता — आधार, भूमिका, महत्व एवं प्रासंगिकता
। फरवरी	र्डकाई – 2	शीतयुद्ध एंव शीतयुद्ध की समाप्ति – कारण, परिणाम, नई विश्व व्यवस्था
2 47(4()		उत्तर शीतयुद्ध कालीन महत्वपूर्ण मुद्दे, वैश्वीकरण, मानवाधिकार, पर्यावरण, आंतकवाद
3. मार्च	इकाइ— उ	उत्तर शातयुद्ध फालान नहरम् । उन्
, अप्रैल	ईकाई - 4	प्रमुख राष्ट्रो की विदेश नीतिया, भारत, संयुक्त राज्य अमेरिका, चीन, रूस
4		

टीचिंग प्लान - सत्र .. 2023-24

कक्षा - एम.ए. चतुर्थ सेमेस्टर

प्रश्न पत्र – द्वितीय – लोक प्रशासन भाग दो

कक्षा	एम.ए.	, चतुथ राग	
क्र	माह	ईकाई	पाठ्यकम पाठ्यकम कार्मिक समस्या, निवारण व्यवस्था, भारतीय प्रशासन के विशेष संदर्भ में कार्मिक समस्या, निवारण व्यवस्था, भारतीय प्रशासन के विशेष संदर्भ में वित्तीय प्रशासन — अर्थ, प्रकृति, विशेषताएं, बजट — सिद्धांत व महत्व, भारत में वित्तीय प्रशासन — अर्थ, प्रकृति, विशेषताएं, बजट — सिद्धांत व महत्व, भारत में
1	1	३५ गर	विन्तीय प्रशासन – अथ, अन्यापनं न्यायपालिका का प्रशासन पर ।
2	फरवरी	इकाइ - 2	बजट निर्माण प्राक्या, नगा अन्तर संचार जवाबदेहिता
-	मार्च	5 5 0	मुणासनिक व्यवहार - नपूष्प ,
3	नाप		लोक प्रशासन में भ्रष्टावार, का अर्
4	अप्रैल	ईकाई - 4	प्रशासन में स्थानाय र



हेमचंद यादव विश्वविद्यालय, दुर्ग (छ.ग.)

एम.ए. प्रथम सेमेस्टर इतिहास (M.A. I Sem. History) प्रथम—प्रश्न पत्र (अनिवार्य) (I Paper Compulsory) इतिहास पद्धति (Methodology of History)

इकाई- 1

1. इतिहास का अर्थ एवं परिभाषा

2. इतिहास का स्वरूप

3. इतिहास विज्ञान एवं कला के रूप में

4. इतिहास के प्रकार एवं क्षेत्र विस्तार

इकाई- 2

5. इतिहास का अन्य सभी सामाजिक विज्ञान विषयों के साथ संबंध — राजनीति शास्त्र, समाजशास्त्र, अर्थशास्त्र, मानवशास्त्र, भूगोल एवं पुरातत्व

ह्यान्त 6. इतिहास का साहित्य के साथ संबंध

7. इतिहास में तथ्य

8. तथ्यों की व्याख्या

इकाई- 3

9. इतिहास में उपकरण

10. इतिहास में कारण,कार्य-कारण संबंध

रिनिभी 11. इतिहास में वस्तुनिष्ठता

12. इतिहास में पूर्वोग्रह

इकाई- 4

13. इतिहास का चक्रवादी सिद्धांत

१ १५०८ 14. इतिहास का समाज शास्त्रीय सिद्धांत

15. इतिहास का आदर्शवादी सिद्धांत

16. इतिहास का तुलनात्मक सिद्धांत

इकाई- 5

निद्युट् 17. इतिहास का आलोचनात्मक सिद्धांत

18. इतिहास का भौतिकवादी सिद्धांत

19. इतिहास का प्रत्यक्षवाद

20. इतिहासवाद



हेमचंद यादव विश्वविद्यालय, दुर्ग (छ.ग.)

एम.ए. प्रथम सेमेस्टर इतिहास (M.A. I Sem. History) द्वितीय-प्रश्न पत्र (अनिवार्य) (II Paper Compulsory) आधुनिक विश्व (Modern World)

विश्व में पूंजीवाद का विकास साम्राज्यवाद का विकास-इंग्लैंड और फ्रांस में साम्राज्यवाद् का विकास—जर्मनी और जापान में इंतेंड में उदारवाद का विकास

5 विस्मार्क की आंतरिक एवं विदेश नीति ह कैसर विलियम द्वितीय की विश्व राजनीति

7. 1900-1910 तक अंतर्राष्ट्रीय संधियां

8.1912 त्क पूर्वी समस्या

नई- 3

ि प्रथम एवं द्वितीय बाल्कन युद्ध – कारण एवं प्रभाव

10. प्रथम् विश्वयुद्ध कारण एवं परिणाम

11. पेरिस शांति सम्मेलन एवं वर्सीय की संधि

12. विश्व में समाजवाद का विकास

इकाई- 4

ब्रि. 13. 1917 की रूसी क्रांति—कारण एवं परिणाम

14. बोल्शेविक क्रांति एवं लैनिन

15. राष्ट्रसंघ संगठन

ब्न <u>८</u>16. राष्ट्रसंघ की उपलब्धियां एवं असफलताएं

इकाई- 5

17. प्रथम विश्वयुद्ध के पश्चात् विश्व आर्थिक मंदी का उदय

19. इटली में फांसीवाद-उदय के कारण 18. न्यूडील

20. मुसोलिनी-गृह एवं विदेश नीति

Govt. Nehru PG College, Dongargarh (C.G.)

Department of Botany

Teaching Plan (2023-24)

Faculty Name - AVINASH SINGH

		Fáculty Name - AVINAS	H SINGH	
		B. Sc. II	B.Sc. III	M.Sc. I & II Sem
	B. Sc. 1	PAPER-I, UNIT-IV	PAPER-II, UNIT-I	CYTOLOGY
hs	PAPER-1	Plant Anatomy: Root and shoot	Cell and cell organelles,	UNIT-I
	- INIT-	apical meristems theories of	organization and morphology	
	VIRUSES: General	root and shoot apex	of chromosomes, giant	
	characteristics, types of	organization,	Chromosomes, cell division,	
	viruses based on structure	Permanent tissues, anatomy of	Mendel's laws, gene	
	and genetic material.	root, stem and leaf of dicot and	interactions, linkage and	
		monocot.	crossing over,	
			Chromosomal aberration,	
			polyploidy, sex linked	
			inheritance, sex determination	,
			cytolasmic	
			Inheritance, gene concept:	
			cistron muton, recon.	CYTOLOGY
	PAPER-I	PAPER-II, UNIT-III	PAPER-I, UNIT-I	UNIT-II
	UNIT-I	Plant water relations: Diffusion	n, Incubator, Autoclave,	
	Multiplication of viruses	permeability, osmosis,	Centrifuge, Spectrophotometere, Structur	re. GENETICS
	(General account), Lytic	imbibitions, plasmolysis,	Principle and applications of	
	and Lysogenic cycle.	osmotic	analytical instrumentation.	
	Economic importance.	Potential and water potential,	Chromatography technique,	
	Structure and	Types of soil water	Oven	
	multiplication of		Oven	
	Bacteriophages. General			
	account of Viroids,			
	Virusoids, Prions, And			
	Cyanophages.			
	Mycorrhiza-Types and			
	Significance.	PAPER-I, UNIT-V		CYTOLOGY
pte	m PAPER-II, UNIT -I		PAPER-II, UNIT- II	UNIT-III
T	BRYOPHYTA: General	41	Nucleic acids, Structure ar	nd
	characteristics, affinities	microsporogenesis, types of	forms of DNA and RNA,	GENETICS
٠.	range of thallus		DNA/RNA as genetic	UNIT-II
	organization, general	ovules, Megasporogenesis,	material,	
	classification and	development of male and	Replication of DNA,	
	economic & ecological		biochemical and molecula	ar
	importance, Systematic	pollination, mechanisms, so	elf basis of mutation, genetic	code
	position, occurrence,	1 11'4 Fortilization	ก เสเนเธ	
	morphology anatomy a	1		f .
	reproductive structure i	200miyas	and transcription and translat	tion in
	Riccia, Marchantia, Pel	parthenocarpy.	I DIOKAI JOGOS - B	of gene
	Anthoceros,	partite noctarpy.	Expression, Operon mod	lel.
	Funaria. Vegetative			er en
	reproduction in			
	Bryophytes, Evolution	01		OVERAL ACTU
0	sporophytes.	PAPER-I UNIT-IV	PAPER-II, UNIT- III	CYTOLOGY
UC	lober PAPER-II, UNIT-II	secondary growth in	Recombinant DNA, En	zymes UNIT-IV
	PTERIDOPHYTES:	1 - 1 -tom Anatomic	in recombinant DNA	
	General characteristic	s, Root and stem, Anatomic	i technology, cloning	ctors GENETICS
	affinities, economic	anomalies in the primary	onthes (Plasmid, Bacteriopha	ges, UNIT-III
	importance and	structure of stems (Nycta	Cosmids, Phagemids),	gene
	classification,	Boerhaavia, Casuarina),		ation of
	Heterospory and seed	Anamolous secondary gi	Biotechnology;	
	habit, stellar system i	n in Dracaena, Bignonia,	G.M.Plants, Monoclo	nal
1	Pteridophytes, Aposo	Laptadenia.	DNA Gua	or l
1	a teridophytes. Aposc	ny Lapine	antibodies, DNA fing	GI

	Azolla as		printing	and the same of th
Bio	ory, Azolla as fertilizer.	PAPER-II , UNIT-III	PAPER-II, UNII-IV	GENETICS UNIT-IV
PAI	fertilizer. pER-I, UNIT-III pGI: General account	water holding capacity, wilting,	Protein: Chemical	
FU	NGI: General	Absorption of	composition, primary,	
oft	habit and habitat,	Water, theories of Ascent of	secondary and tertiary	
stri	acture (range of wall	sap, Mineral nutrition and	structure of Proteins.	
org	ganization), cell wall	absorption, Deficiency	Carbohydrate: general account	
		symptoms,	of monosaccharides,	
3	Justian III Iulian	Transpiration, stomatal	disaccharids and	
	eterothallism and erasexuality. Outlines of	movement, significance of	Polsaccharides	
Pa	lassification of fungi.	transpiration, Factors affecting		
C	conomic importance of	transpiration,		
B	conomic importance	Guttation		
fi	ingi. ife cycles of Saprolegnia,	PAPER-II, UNIT-IV	PAPER-II, UNIT-IV	
L	ife cycles of outprotes.	Photosynthesis: Photosynthetic	D. C. Characture and Droper iles of	
A	Albugo,, Aspergillus, Peziza,	apparatus and pigments, light	fats and fatty acids, synthesis	
- 1	Ognilar Henry	reaction mechanism of ATP	and breakdown.	
3 -	Alternalia and	Synthesis. C3, C4 CAM	and oreakdo	
-	Puccinia, Alternational Pungi Cercospora. VAM Fungi	pathway of carbon reduction,		
	Cercospora.	photorespiration, factors		
		affecting	2	MOLECULAR
		Photosynthesis.	PAPER-II, UNIT- V	BIOLOGY
4	PAPER-II, UNIT-IV	Respiration: Aerobic and	TOTAL Nomencialuic	UNIT-I
ry	a macherm. (reneral	anaerobic respiration,	and classifaction, components	01111
	1 exteristics, all lillings,	Glycolysis, Kreb's cycle, factors affecting, Respiration,		PLANT
	economic importance and	1 Idelois	enzyme	PHYSIOLOGY
	Lacrification.	10.4.	Action,	UNIT-I
	Marphology, anatomy ar	nd		
	reproduction in Cycas,			
	Pinus and Ephedra.	****	TO A LINIT II	MOLECULAR
		PAPER-II, UNIT-V	PAPER-I, UNIT-II	BIOLOGY
ruar	PAPER-I,	Plant growth hormones: Aux	in, Plant Tissue culture techniques, growth media,	UNIT-II
,	Revision	Cibborallin Cytokinin,	toplast cultur	e,
		Ethylene and Abscissic acid.	somatic	PLANT
	PAPER-II	l pi i-lomi	land owhrids	PHYSIOLOGY
	Revision	Of flowering, Florigen conc	igrangagation, somacion	al UNIT-II
		l indigm and	voriations haploid culture.	
		Vernalization. Seed dorman	techniques:	
		and Germination, plant	Microscopy-Light microsco	pe,
		movement.	Electron microscope	MOLECULAR
				BIOLOGY
local	h			UNIT-III
March				
	1			PLANT
		성명 (14 보고 있는데) 가셨다며		METABOLISM
				UNIT-I
		31		MOLECULAR
				BIOLOGY
Apri	il			UNIT-IV
		그 발생님 이 없으면 하는데		
		요. 이 시하는 다양과 날아나 요.		PLANT
100				METABOLISM
			하는데 나를 하는데 하는데 얼마를 다 되다.	UNIT-III

HEAD D Govt. Neur. College Dongargarh, Districtionandgaon



DEPARTMENT OF PHYSICS TEACHING PLAN 2023-24

CLASS- B.SC PART-III

PAPER-II SOLID STATE PHYSICS, SOLID STATE DEVICES AND ELECTRONICS

T	Month	Proposed Work
J	uly	Amorphous and crystalline solids, Elements of symmetry, seven crystal system, Cubic lattices, Crystal planes, Miller indices,
+	August	Laue's equation for X-ray diffraction, Bragg's Law, Bonding in Solids, exception for X-ray diffraction, Bragg's Law, Bonding in Solids, exception for X-ray diffraction, Bragg's Law, Bonding in Solids, exception for X-ray diffraction, Bragg's Law, Bonding in Solids, exception for X-ray diffraction, Bragg's Law, Bonding in Solids, exception for X-ray diffraction, Bragg's Law, Bonding in Solids, exception for X-ray diffraction, Bragg's Law, Bonding in Solids, exception for X-ray diffraction, Bragg's Law, Bonding in Solids, exception for X-ray diffraction, Bragg's Law, Bonding in Solids, exception for X-ray diffraction, Bragg's Law, Bonding in Solids, exception for X-ray diffraction, Bragg's Law, Bonding in Solids, exception for X-ray diffraction, Bragg's Law, Bonding in Solids, exception for X-ray diffraction, Bragg's Law, Bonding in Solids, exception for X-ray diffraction for X-ray diffracti
		Vibrational modes of one dimensional monoatomic latter and Brillouin Zone.
		Free electron model of a metal, Solution of one dimensional Schrodinger equation in a constant potential,
-	September	Density of states, Fermi Energy, Energy bands in a solid (Kronig Louis) without mathematical details), Difference between Metals, Insulator and without mathematical details), Para and Ferromagnetism, Langevin's theory of dia
		Semiconductors, Hall effect, Dia, I at a the I of and para-magnetism, Curie- Weiss's Law, Qualitative description of and para-magnetism (Magnetic domains), B-H curve and Hysteresis loss. Unit-II
1.	October	Free electron model of a metal, Solution of one dimensional Schrodinger equation in a constant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Permi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Permi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Permi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Permi Energy, Energy bands in a solid (Kronigconstant potential, Density of states, Permi Energy, Energy bands in a solid (Kronigconstant potential, Permi Energy, Energy bands in a solid (Kronigconstant potential, Permi Energy, Energy bands in a solid (Kronigconstant potential, Permi Energy, Energy bands in a solid (Kronigconstant potential, Permi Energy, Energy bands in a solid (Kronigconstant potential, Permi Energy, Energy bands in a solid (Kronigconstant potential, Permi Energy, Energ
)5.	Novembe	recombination of electron hole pairs in semiconductors, recombination of electron hole pairs in semiconductors, recombination of electron hole pairs in semiconductors, recombination width and potential holes, drift and diffusion currents, p-n junction diode, depletion width and potential holes, drift and diffusion currents; Tunnel diode, Zener diode, Light barrier, junction capacitance, I-V characteristics, pnp and npn transistors, characteristics emitting diode, solar cell, Bipolar transistors, pnp and npn transistors, characteristics of transistors, different configurations, current amplification factor, FET and of transistors.
06	. Decembe	- Fridge rectifier, Filter

anuary	Digital Circuits: Difference between Analog and Digital Circuits, Binary Numbers, Decimal to Binary and Binary to Decimal Conversion, AND, OR and NOT Gates (Realization using Diodes and Transistor), NAND and NOR Gates as Universal Gates, XOR and XNOR Gate, De Morgan's Theorems, Boolean Laws, Simplification of Logic Circuit using Boolean Algebra, Digital to Analog Converter, Analog to Digital Converter.
ebruary	Practical and Revision

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Principal, Govt. Nehru F.G. College DONGARGARH Distt. Rajnandgaon (C.G.)

DEPARTMENT OF PHYSICS TEACHING PLAN 2023-24

CLASS- B.SC PART-I

PAPER-II ELECTRICITY, MAGNETISM AND ELECTROMAGNETIC THEORY

Sr.	Month	Proposed Work
No.		Unit-I
01.	July	Repeated integrals of a function of more than one variable, definition of a double and
02.	August	divergence and curl of a vector field, and their geometrical interpretation, they surface and volume integrals, flux of a vector field. Gauss's divergence theorem, Green's theorem and Stoke's theorem and their physical significance. Kirchhoff's law, Ideal Constant-voltage and Constant-current Sources. Thevenin theorem, Morton theorem, Superposition theorem, Reciprocity theorem and Maximum Power Transfer theorem. Unit-II Coulomb's law in vacuum expressed in -Vector forms, calculations of E for simple
03.	September	Work done on a charge in a electrostatic field expressed as a fine integral, conservative nature of the electrostatic field. Relation between Electric potential and Electric field, torque on a dipole in a uniform electric field and its energy, flux of the
		Gauss's law and its application: E due to (1) an infinite Line of Charge, (2) a charge Cylindrical Conductor, (3) an Infinite Sheet of Charge and Two Parallel Charged Sheets, capacitors, electrostatic field energy, force per unit area of die surface of a conductor in an electric field, conducting sphere in a uniform electric field.
04.	October	Dielectric constant, Polar and Non Polar dielectrics, Dielectrics and Gauss's Law, Dielectric Polarization, Electric Polarization vector P, Electric displacement vector D. Relation between three electric vectors, Dielectric susceptibility and permittivity Relation between three electric vectors, Dielectric susceptibility and permittivity Polarizability and mechanism of Polarization, Lorentz local field, Clausius Mossott equation, Debye equation, Ferroelectric and Paraelectric dielectrics, Steady current, current density J, non-steady permets, and continuity equation, rise and decay of current in LR, CR and LCF exprents, and continuity equation, rise and decay of current in LR, CR and LCF exprents.
		aircuits 1.41 - in applications in solving AC
05.	November	circuit problems, complex impedance and circuit, power factor. factor, power consumed by an a AC circuit, power factor. Unit-IV
		Magnetization Current and magnetization vector M, three magnetic vectors and their relationship, Magnetic permeability and susceptibility, Diamagnetic, paramagnetic and ferromagnetic substances. B.H. Curve, cycle of magnetization and paramagnetic and ferromagnetic substances.
06.	December	hysteresis, Hysteresis loss. hysteresis, Hysteresis loss. Biot-Savart's Law and its applications: B due to (1) a Straight Current Carrying Biot-Savart's Law and its applications: B due to (1) a Straight Current Carrying Conductor and (2) Current Loop. Current Loop as a Magnetic Dipole and its Dipole Conductor and (2) Current Loop. Current Loop as a Magnetic Dipole and its Dipole Moment (Analogy with Electric Dipole). Ampere's Circuital law (Integral and

	Differential Forms).
anuary	Unit-V Electromagnetic induction, Faraday's law, electromotive force, integral and differential forms of Faraday's law Mutual and self inductance, Transformers, energy in a static magnetic field. Maxwell's displacement current, Maxwell's equations, electromagnetic field energy density. The wave equation satisfied by E and B, plane electromagnetic waves in vacuum, Poynting's vector.
February	Practical and Revision

HEAD DEPT. OF PHYSICS GOVT. NEHRU P.G. COLLEGE DONGARGARH (C.G.)

Govt. Mehru R.G. College DONGARGARH Distt. Rajnandgaon (C.G.)

DEPARTMENT OF PHYSICS TEACHING PLAN 2023-24

CLASS- M.Sc. Semester-IV PAPER-I: NUCLEAR AND PARTICLE PHYSICS

		Proposed Work
T	Month	
1	January	Nuclear Interactions: Nucleon-nucleon interaction, Two-nucleon system, Nuclear Interactions: Nucleon-nucleon interaction, Nucleon-nucleon scattering Shorty Spin dependence of
	anuary	at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy, Scattering length, Effective range theory, open at low energy length, energy leng
		Unit-II
	February	Nuclear Reactions: Reaction energetics: Q-equation and threshold energies, Reactions cross sections, Resonance: Breit-Wigner single-level formula, Direct Reactions cross sections, Formal reaction theory: Partial wave
		and compound nuclear reactions, Formal reaction theory. Take and compound nuclear reactions matrix, Reciprocity theorem,
3.	March	Reta decay, Femi's theory of beia decay, Shape
		the beta spectrum, retained and reference selection rules, Comparative half-lives, Allowed and reference selection rules, Comparative half-lives, Allowed and reference selection rules, Parity violation, Two component theory transitions, Selection rules of neutrino of neutrino decay, Detection and properties of neutrino Gamma decay, multiple transitions in nuclei, Angular momentum and Parity selection rules, internal conversion, nuclear isomerism
04.	April	Nuclear models: Liquid drop model, Bohr-Wheeler theory of fission, Shell Model, Experimental evidence for shell effects, Single fission, Shell model, Spin-orbit interaction and magic numbers, particle shell model predictions, Magnetic moments and Analysis of shell model predictions, Magnetic moments and Schmidt lines, Collective model of Bohr and Mottelson. Unit-V Elementary particle Physics: The fundamental interactions, Classification of elementary particles, Leptons and Hadrons, Symmetries, groups and elementary particles, SU(2) and SU(3) multiples and their properties, Quark model, Properties of Quarks, the standard model.
-		EXAMS

Rothan

Roshan

Principal, Chilege

DEPARTMENT OF PHYSICS TEACHING PLAN 2023-24

CLASS- M.Sc. Semester-IV PAPER-II: LASER PHYSICS AND APPLICATIONS

-		Proposed Work
Mo	onth	
		Unit-I
Janua	iry	Spontaneous and stimulated emission, Einstein's quantum theory of spontaneous and stimulated emission, Einstein's quantum theory of spontaneous and stimulated emission, Einstein's quantum theory of spontaneous and processes, coherence and radiation, theory of some optical processes, coherence and monochromacity, kinetics of optical absorption, line broadening monochromacity, kinetics of optical absorption, line broadening mechanism, Basic principle of lasers, population inversion, laser mechanism, Basic principle of lasers, population inversion, laser pumping, two & three level laser systems, resonator, Q-factor, losses in cavity, threshold condition, quantum yield.
		Unit-II
Feb	oruary	Laser Systems Solid state lasers- the ruby laser, Nd: YAG laser, ND: Glass laser, semiconductor lasers – features of semiconductor lasers, intrinsic semiconductor lasers, Gas laser - neutral atom gas laser, He-Ne laser, semiconductor lasers, Gas laser - neutral atom gas lasers and chemical molecular gas lasers, CO2 laser, Liquid lasers, dye lasers and chemical
		laser. Unit-III
		Advances in laser Physics- Production of giant pulse -Q-switching, giant pulse dynamics, laser amplifiers, mode locking and puiling, Non-linear optics, Harmonic generation,
3. N	March	,second harmonic generation, rhase material second harmonic generation and self-focusing of light.
		Multi-photon processes; multi-quantum photoelectric effect, Theory of two-photon process, three- photon process, second harmonic generation, two-photon process, three- photon process, second harmonic generation, parametric generation of light, Laser spectroscopy: Rayleigh and Raman parametric generation of light, Laser spectroscopy: Rayleigh and Raman seattering, Stimulated Raman effect, Hyper-Raman effect, Coherent antistokes Raman Scattering, Photo-acoustic Raman spectroscopy
04.	April	Laser Applications – ether drift and absolute rotation of the Earth, isotope separation, plasma, thermonuclear fusion, laser applications in chemistry, biology, astronomy, engineering and medicine. Communication by lasers: ranging, fiber Optics Communication, Optical fiber, numerical aperture, propagation of light in a medium with variable index, pulse dispersion.
05.	May	EXAMS

CLASS- M.Sc. Semester-IV PAPER-III: SOLID STATE PHYSICS- II

1	Month	Proposed Work
).		Unit-I
7	January	Plasmon's, Polaritons
		Dispersion relation and Dispersion relation
		1 / 1 L and caragnal (Allialli) Duwing
		insulator transition, screening and phonons in metals, Polaritons, LST
	เอาเรา	relation.
	r-h-uary	Unit-II
	February	Dielectric and ferroelectrics necroscopic electric field,
		119
		depolarization filed, E1; local electric field at an atom, Lorentz filed E2,
		late C 1 - I - I - maide county H4' (Helecillic Collection was presented
		electronic polarizability; structural phase transition; ferro-electric crystals,
		classification; displacive transition, soft optical phonons, Landau theory of
		phase transitions, first and second order transition, antiferro-electricity,
		ferro- electric domain, piezoelectricity, ferro-elasticity, optical ceramics.
_	March	Unit-III
•	March	Magnetism theory of
		General ideas of dia- and para- magnetisms, quantum theory of
		1 and court tone Hilly file Holl gloup long, or joing asset
		splitting, quenching of orbital angular momentum, spectroscopic splitting
		factor, nuclear demagnetization, paramagnetic Susceptibility of conduction
		electrons.
		Unit-IV
		Ferromagnetism and anti-ferromagnetism
		Ferromagnetism and anti-ferromagnetism and exchange integral, temp dependence Ferromagnetic order, Curie point and exchange integral, temp dependence
		of saturation magnetization, saturation magnetization at absolute zero; magnons. Ferrimagnetic order, Curie temp and susceptibility of
		magnons. Ferrimagnetic order, Curie temp and susceptionity of
_		ferrimagnets, iron garnets. Antiferromagnetic order, Unit-V
	April	Optical Processes &Excitons and defects
		Optical reflectance, excitons, Frenkel and Mott-Wannier excitons, Alkali
	A Sala Sala	Halides and Molecular crystals Defects: lattice vacancies, Schottkey and
		Frenkel point effects, colour centers, F and other centers, Line defect. Shear
	Tallerine -	strength of single crystals, dislocations- edge and screw dislocations,
		Burger vectors, Stress fields of dislocations, low angle grain boundaries,
·.	1	dislocation densities, dislocation multiplication and slip, strength of
•	May	alloys, dislocations and crystal growth, hardness of materials.
		alloys, dislocations and or four Brown, and

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DEPARTMENT OF PHYSICS TEACHING PLAN 2023-24

CLASS- M.Sc. Semester-II PAPER-I: QUANTUM MECHANICS-I

	Proposed Work
Month	
	Unit-I de and radiation
anuary	Unit-I Inadequacy of classical mechanics, Planck's quantum hypothesis and radiation law, Photoelectric effect, De-Broglie's theory. Schrödinger equation, continuity equation, Ehrenfest theorem, admissible wave functions, stationary states, equation, Ehrenfest theorem, admissible wave functions, Schrödinger equation one-dimensional problems; potential well and barriers, Schrödinger equation for harmonic oscillator and its solution, uncertainty relations, states with
	minimum uncer turnoy p
	I Init-II
February	Superposition principle, general formalism of wave mechanics, representation of states and dynamical variables, commutation relationship, completeness and normalization of Eigen functions, Dirac-delta function, Bra & Ket notation, matrix representation of an operator, harmonic oscillator and its solution by matrix method, Heisenberg equation of motion.
March	Unit-III
Inc	Angular momentum in quantum mechanics, commutation relationships, Eigen values, Spin angular momentum, Pauli's matrices, addition of angular momentum, Clebsch-Gordon coefficients.
	Central force problem, spherically symmetric potentials in three dimensions, separation of wave equation, parity, three-dimensional square-well potential
	1 1 the hydrogen atom.
4. April	solution of the radial equation, energy levels and stationery state wave functions, discussion of bound states, degeneracy. Init-V
	Time- independent perturbation theory, non-degenerate case, first order and second perturbations with the example of an oscillator, degenerate cases, removal of degeneracy in second order, Zeeman effect without electron spin, first-order Stark effect in hydrogen,
05. May	perturbed energy levels, correct Eigen function, occurrence of
05. May	permanent electric dipole moments.
	선생님들 경기 회사 그는 이번 시간 회사에 가지 않아 있다는 이번 시간 사람이 가지 않아 없었다.

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Department

Teaching Plan- 2023-24 Department of Zoology B.Sc. I Year

		hordata PAPER- II - Chordata and Embryology
		PAPER-II - Chordata and
with T	Unit	PAPER- I - Cell Biology and Non-choldata 2.
onth	Control of the Contro	
ly 2023	Unit – I	nuclear Plasma memora. Endoplasmic reticulum, Golgi body, and Myxine. Ribosome and Lysosome). 3. Nucleus, and Myxine. Chromosomes, DNA and RNA. Chromosomes, DNA and RNA. Chromosomes, DNA and RNA. 1. Fishes-Skin & Scales, migration in fishes, parental care in fish. 2. Amphibia-Parental parental care in fish. 3. A comparative accounts and Myxine.
ugust 2023	Unit – H	2. An elementary idea of Cancer centers of Cance
September 2023	Unit - II	General characters and classification of Phylum Protozoa, Porifera, and Coelenterata up to order. 2. Protozoa: Type study - Paramecium, 2. Porifera: Type study - Sycon. 3. Coelenterata: Type study - Obelia. Practical work start. Perching mechanism, Discussion of Prototheria, Comparative account of Prototheria, Metatheria, Eutheria and Affinities. 3. Aquatic Mammals and their adaptations. Practical work start.
October 2023	Unit -	General characters and classification of Phylum Platyhelminthes, Nemathelminthes, Annelida and Arthropoda up to order. Platyhelminthes and Nemathelminthes: Type Study – Fasciola, Ascaris 3. Annelida: Type Study - Pheretima. 4. Arthropoda: Type Study - Palaemone. Structure of gamete and Typesof eggs 3. Cleavage 4. Development of Frog up to formation of three germ layers. 5. Parthenogenesis
Novembe 2023	er Unit	General characters and classification of Phylum Mollusca and Echinodermata up and Regeneration. 2. Development of Children C
December 2023 & Januar 2024	y	Unit revised/ Internal Exam
CU		
Februa 2024		Practical Exam

Head Of Depit.



Govt. Nehru P.G. College, Dongargarh

Department of Mathematics

Teaching Plan 2023-24
B.Sc. Mathematics Part I

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Vo.	Month	Paper	
	July	Paper I	UNIT-1 Symmetric, Skew symmetric, Hermitian and skew hermitian, matrices. Elementary operations on matrices, Inverse of a matrix. Linear independence of row and column
	a suite manife		matrices, Row rank, Column rank and rank of a matrix.
			Equivalence of column and row ranks. Eigen values, Eigen
			vectors and the characterstic equations of a matrix. Cayley
			Hamilton theorem and its use in finding inverse of a matrix.
2.	August	Paper	UNIT-2 Application of Matrices to a system of linear (both
		I	homogeneous and nonhomogeneous) equations. Theorems
			consistancy of a system of linear equations. Relation
		2	between the roots and coefficients of general polynomial
			equations in one variable. Transformation of equations.
			Descarte's rule of signs. Solutions of cubic equations
			(Cardons Method), Biquadratic equation.
			내는 사람들 중요 나는 사람들은 아이를 가는 것이 없는 것이 하는 것이 되었다. 그렇게 되었다.
3.	September	Paper	UNIT-3 Mappings, Equivalence relations and partitions.
	September	rupei	Congruence modulo n. Definition of agroup with examples and
		Yey	simple properties. Cyclic groups generators, Coset
			decomposition, Lagranges theorem and its consequances.
			Formate and Euler's theorems. Normal subgroups. Quotient
			group, Permutation groups, Even and oddpermutations the
			alternating groups. Cayley's theorem An.
4.	October	Paper	UNIT-1 $\varepsilon = \delta$ definition of the limit of a function D-
		11	properties of limits. Continuous functions and
			Classification of discontinuties Differentialia
			Successive differentiation. Leibnritz theorem Maglauria
5.	November	Paper	1 10 1 10 1 10 1 10 1 10 10 10 10 10 10
	November .	l	UNIT-2 Asymptotes curvature. Tests for concavity and
			convexity. Points of inflexion. Multiple points. Tracing of curves in Cartesian and polar
6.	December	Paper	
		1	UNIT-4 Homomorphism and Isomorphism the fundamental theorems of homomorphism. Introduction, properties and examples of Rings, Subsings Integral deprint
			Rings, Subsings, Integral domain and fields
			1 Characters I C Or a ring and elli
7.	January	Paper	UNIT-5 De Molvres theorem and its
		1	inverse Circular and Hyperbolic functions. Direct and complex quantity. Expansion of Trigram.
			complex quantity. Expansion of Trignometrical
8.	February	Pan	
	rebluary	Paper	
		11	transcendental functions. Reduction formulae. Definite
			integrals. Quadrature. Rectification. Volumes and surfaces of solids of revolution.
			of solids of revolution. Wolumes and surfaces

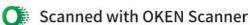
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Govt. Nehru P.G. College, Dongargarh

Department of Mathematics Teaching Plan 2023-24 8.St. Mathematics Part-I

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No.	Wouth	Limited	Wift-I Scalar and vector product of three vectors. Product of four vectors. Reciprocal Vectors. Vector differentition.		
	N/A August	Paper III	Gradient, divergence and curi. Theorems of Gauss, Green, Stokes		
	Zonember	Propert III			
	19/4/1946	Paper 1li	Exiten of conies. Commentation. Equation.		
i.	Variangus	Paper	of first order and illist domogeneous equations. Linear variables are separable. Homogeneous equations. Linear form. Exact		
			differential equations. Figure 2 and singular solvable for x. y. p. Clairaut's form and singular solvable for x. y. y. p. Clairaut's form and y.		
			Orthogonal trajectories. Linear differential equations with constant coefficients.		
	December	Paper 11	UNIT-5 Linear differential equations of Second Older Transformation of the equation by changing the dependent variable/the independent variable. Method of variation of parameters. Ordinary simultaneous differential equations.		
Š.	January	Paper	Cylinder.		
1	February	-Paper	UNIT-5 Central Conicoids. Paraboloids. Plane sections of conicoids. Generaing lines. ConfocalConicoids. Reduction of second degree equations.		







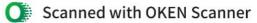
Teaching Plan- 2023-24

Department of Zoology M.Sc.- I Semester

August 2023	Unit – I Unit – II	Definition and basic concepts of biosystematics and taxonomy. Historical resume of systematics. Importance and applications of biosystematics in biology Trends in biosystematics concepts of different conventional and newer aspects Chemotaxonomy Cytotaxonomy Molecular taxonomy Dimensions of speciation and taxonomic characters Mechanisms of speciation in panmictic and apomictic species Species concepts and species category. Theories of biological classification. Taxonomic characters and different kinds.	Organization of coelom Acoelomates and Pseudocoelomates Coelomates: Protostomia and Deuterostomia. Locomotion Flagellar and cilliary movement in Protozoa. Hydrostatic movement in Coelenterata, Annelida and Echinodermata Nutrition and Digestion Patterns of feeding and digestion in Protozoa Filter feeding in polychaeta. Respiration Organs of respiration Gills, lungs and trachea.
August 2023	Unit – II	Mechanisms of speciation in panmictic and apomictic species Species concepts and species category. Theories of biological classification.	Patterns of feeding and digestion in Protozoa Filter feeding in polychaeta. Respiration Organs of respiration Gills, lungs and
September			Respiratory pigments.
	Unit - III	Procedure keys in taxonomy. Taxonomic procedures-taxonomic collections, preservation, curetting Taxonomic keys-different kinds of taxonomic keys, their merits and demerits. Process of typification and different Zoological types. International code of Zoological Nomenclature (ICZN)	Excretion Organs of excretion. Excretion and osmoregulation Nervous System Primitive nervous system: Coelenterata and Echinodermata. Advanced Nervous system: Annelida, Arthropoda (Crustacea and insecta) and Mollusca (Cephalopoda)
October 2023 1	Jnit - IV	Biodiversity Types of Biodiversity Hot spots of Biodiversity Threats to Biodiversity Conservation of Biodiversity Evaluation of biodiversity indices	Invertebrate larvae Larval forms of free-living and parasition invertebrates Minor Phyla Organization and general characters of (Ctenophore, Rotifera, Ectoprocta, Endoprocta
November U 2023	Unit-V	Practical complete and Unit Revised	Practical complete and Unit Revised

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Teaching Plan- 2023-24 Department of Zoology

M.Sc. - I Semester

		PAPER- III -	PAPER- IV- TOOLS & TECHNIQUES IN BIOLOGY
Month.		PAPER- III - POPULATION GENETICS & EVOLUTION Concepts of evolution and Concepts of evolution evolution:	Principles and application of Ultracentrifugation
July 2023		Lamarckism, Darwinism and Synthetic theory of evolution Evidences of evolution: anatomical, embryological, palaentological, physiological and Bio-chemical	Electrophoresis Chromatography (various types) Lambert-Beers Law and colorimetry and spectrophotometry Flow cytometry Principles and Application of
August 2023	Unit – II	Hardy-Weinberg law of genetic equations Detailed account of destabilizing forces. Natural selection Mutation Genetic drift Meiotic drive Phenotypic variation	Phase Contrast Intercorpy Interference microscopy Fluorescence microscopy Transmission Electron microscopy. Scanning Electron microscopy.
September 2023	Unit - III	Patterns and mechanisms of reproductive isolation Phylogenetic and biological concepts of species Gene Evolution, Evolution of gene families Factors affecting human disease frequency	Assay Chemical assays Biological assays-in vivo and in vitro Principles of cytological and cytochemical techniques Fixation: chemical basis of fixation by formaldehyde, gluteraldehyde, chromium salts, mercury salts, osmium salts, alcohol and acetone Chemical basis of staining of carbohydrate, protein lipids and nucleic acids.
October 2023	Unit - IV	Origin of higher categories Micro-and Macro-evolution Evolution of horse, elephant, camel, man	Principle and techniques of Nucleic acid hybridization and cot curve Sequencing of proteins and nucleic acids
		Practical complete and Unit Revised	Freeze techniques Media preparation and Practical complete and Unit Revised
2023 December		Semester Exam	

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