

UNIVERSITY OF RAJASTHAN

JAIPUR

SYLLABUS

B.A. Part-I

EXAMINATIONS - 2017

Dy. Registrar (Acad.)

11/11/2017

CONTENTS

SCHEME OF EXAMINATION & DISTRIBUTION OF MARKS SYLLABUS :

Compulsory Subjects (Four) :

1. सामान्य हिन्दी (General Hindi)
2. General English (Essential Language Skills)
3. Environmental Studies
4. Elementary Computer Applications
5. प्रारम्भिक हिन्दी (Elementary Hindi) (in Lieu of Gen. Hindi)

Optional Subjects (Any Three) :

1. English Literature
2. Hindi Sahitya
3. Urdu
4. Persian
5. Arabic
6. Sanskrit
7. Philosophy
8. History
9. Political Science
10. Indian Music
11. Public Administration
12. Drawing & Painting .
13. Sociology
14. French
15. German
16. Home Science
17. Textile Craft
18. Garment Production & Export Management
19. Investigative Bio-Technology
20. Mathematics
21. Economics
22. Geography
23. Statistics
24. Applied Statistics
25. Psychology
26. Rajasghari
27. Sheep and Wool
28. Live Stock and Dairying
29. Anthropology
30. Dramatics
31. Physical Education
32. Indian Heritage in Rural Handicrafts
33. Computer Application

DISTRIBUTION OF MARKS

Sr. No.	Name of the Subject	No. of Papers	Duration	Max. Marks	Min. Pass Marks
1	2	3	4	5	6

Compulsory Subjects

1.	सामान्य हिन्दी (General Hindi)	One Paper	3 hrs.	100	36
2.	General English (Communication Skills in English)	One Paper	3 hrs.	100	36
3.	Environmental Studies Theory			100	100 36
4.	Elementary Computer Applications		Theory	60	} 100 36
5.	प्रारम्भिक हिन्दी (Elementary Hindi) (in lieu of Gen. Hindi) One Paper		Practical	40	
		One Paper	3 hrs.	100	36

Optional Subjects (Any Three of the following subject to the restrictions as mentioned in O.203-I) :

1.	English Literature	Paper I	3 hrs.	100	} 200 72
		Paper II	3 hrs.	100	
2.	Hindi Sahitya	Paper I	3 hrs.	100	} 200 72
		Paper II	3 hrs.	100	
3.	Urdu	Paper I	3 hrs.	100	} 200 72
		Paper II	3 hrs.	100	
4.	Persian	Paper I	3 hrs.	100	} 200 72
		Paper II	3 hrs.	100	
5.	Arabic	Paper I	3 hrs.	100	} 200 72
		Paper II	3 hrs.	100	
6.	Sanskrit	Paper I	3 hrs.	100	} 200 72
		Paper II	3 hrs.	100	
7.	Philosophy	Paper I	3 hrs.	100	} 200 72
		Paper II	3 hrs.	100	
8.	History	Paper I	3 hrs.	100	} 200 72
		Paper II	3 hrs.	100	
9.	Political Science	Paper I	3 hrs.	100	} 200 72
		Paper II	3 hrs.	100	
10.	Indian Music	Paper I	3 hrs.	40	} 80 29
		Paper II	3 hrs.	40	
		Practical	3 hrs.	120	43
11.	Public Admn.	Paper I	3 hrs.	100	} 200 72
		Paper II	3 hrs.	100	

1	2	3	4	5	6	
12. Drawing & Painti		Paper I	3 hrs.	90	} 180 65	
		Pract. Paper II	3 hrs	90		
		Submission of work		20		7
		(Regular)				
13. Sociology		Paper I	3 hrs.	100	} 200 72	
		Paper II	3 hrs	100		
14. French		Paper I	3 hrs.	75	} 27	
		Paper II	3 hrs	75		72
		Viva-voce		50		18
15. German		Paper I	3 hrs.	75	} 27	
		Paper II	3 hrs	75		72
		Viva-voce		50		18
16. Home Science		Paper I	3 hrs.	50 50	} 54 70	
		Paper II	3 hrs	50 50		
		Practical I	3 hrs	30 50		11
		Practical II	3 hrs	20 50		7
17. Textile Craft		Paper I	3 hrs.	60	} 22	
		Paper II	3 hrs.	80		28
		Practicals				
		Submission		60	22	
18. Garment Prod. & Export Management		Paper I	3 hrs.	60	} 22	
		Paper II	3 hrs.	60		
		Two Practicals		80		28
19. Investigative Biotechnology		Paper I	3 hrs.	60	} 22	
		Paper II		60		22
		Practical		80		28
20. Mathematics		Paper I	3 hrs.	66	} 200 72	
		Paper II	3 hrs.	66		
		Theory Paper III	2½ hrs.	44		
		Practical Paper III	2 hrs.	24		
21. Economics		Paper I	3 hrs.	100	} 200 72	
		Paper II	3 hrs.	100		
22. Geography		Paper I	3 hrs.	75	} 200 72	
		Paper II	3 hrs.	75		
		Practical	3 hrs.	50		18
23. Statistics		Paper I	3 hrs.	65	} 24	
		Paper II	3 hrs.	65		24
		Practical		70		24

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1	2	3	4	5	6
24. Applied Statistics	Paper I	3 hrs.	65		24
	Paper II	3 hrs.	65		24
	Practical		70		24
25. Psychology	Paper I	3 hrs.	75	} 200	72
	Paper II	3 hrs.	75		
	Practical		50		
26. Rajasthani	Paper I	3 hrs.	100	} 200	72
	Paper II	3 hrs.	100		
27. Sheep & Wool	Paper I	3 hrs.	66	} 132	48
	Paper II	3 hrs.	66		
	Practical	4 hrs.	68		
28. Live Stock & Dairying	Paper I	3 hrs.	66	} 132	48
	Paper II	3 hrs.	66		
	Practical	4 hrs.	68		
29. Anthropology	Paper I	3 hrs.	100	} 200	72
	Paper II	3 hrs.	100		
30. Dramatics	Paper I	3 hrs.	50		18
	Paper II	3 hrs.	50		18
	Pract. Paper I	4 hrs.	50		18
	Pract. Paper II	4 hrs.	50		18
31. Physical Education	Paper I	3 hrs.	60		22
	Paper II	3 hrs.	60		22
	Practical		80		28
32. Indian Heritage in Rural Handicrafts	Paper I	3 hrs.	60		22
	Practical	3 hrs.	80		28
	Submission		60		22
33. Computer Application	Paper I	3 hrs.	65	} 130	47
	Paper II	3 hrs.	65		
	Practical		70		

- N.B. : 1. Candidates must pass separately in each of the test/Theory and Practical (wherever prescribed).
2. Common papers in the subjects of Statistics, Mathematics, Economics, Geography and Psychology will be set both in the Faculties of Social Sciences and Science. The allocation of marks will however be different as mentioned in the booklet of syllabus.

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1 राजस्थान विश्वविद्यालय, जयपुर सामान्य हिन्दी

पूर्णांक 100

समय 3 घण्टे

न्यूनतम उत्तीर्णांक 36

नोट : 36 से कम अंक आने पर छात्रों को उत्तीर्ण नहीं किया जायेगा। इस प्रश्न-पत्र में प्राप्त अंकों को श्रेणी निर्धारण हेतु नहीं जोड़ा जायेगा।

अंक विभाजन - प्रश्न पत्र में दो भाग होंगे - 1. साहित्य खण्ड एवं 2. व्याकरण खण्ड। साहित्य खण्ड में दो भाग होंगे- गद्य भाग एवं पद्य भाग। प्रत्येक भाग के लिए 25 अंक निर्धारित हैं।

		50 अंक
क	दो व्याख्या पद्य से (प्रत्येक में विकल्प देना है)	5 x 2 = 10 अंक
ख	दो व्याख्या गद्य से (प्रत्येक में विकल्प देना है)	5 x 2 = 10 अंक
ग	आलोचनात्मक प्रश्न पद्य से (विकल्प देना है)	7½ x 2 = 15 अंक
घ	आलोचनात्मक प्रश्न गद्य से (विकल्प देना है)	7½ x 2 = 15 अंक

व्याकरण / व्यावहारिक हिन्दी खण्ड		25 अंक
i.	निबंध लेखन - शब्द सीमा 300 शब्द	8 अंक
ii.	कार्यालयी लेख - शासकीय-अर्द्धशासकीय पत्र, परिपत्र, अधिसूचना, कार्यालय ज्ञापन, विज्ञप्ति, कार्यालय आदेश।	4x2 = 8 अंक
iii.	संक्षेपण (विकल्प देना है)	5 अंक
iv.	पल्लवन (विकल्प देना है)	4 अंक
v.	शब्द निर्माण की प्रविधि - उपसर्ग, प्रत्यय, संधि, समास	5 अंक
vi.	वाक्य शुद्धि / शब्द शुद्धि	5 अंक
vii.	मुहावरे	5 अंक
viii.	पारिभाषिक शब्दावली	5 अंक
ix.	व्याकरणिक कोटियां - संज्ञा, सर्वनाम, विशेषण, क्रिया, क्रिया विशेषण	5 अंक

साहित्य खण्ड : गद्य-पद्य की निर्धारित रचनाएँ

गद्य भाग - निम्नांकित पाठ निर्धारित हैं -

- कहानी : बड़े घर की बेटी (प्रेमचंद)
- संस्मरण : प्रणाम (महादेवी वर्मा)
- रेखाचित्र : बाईस वर्ष बाद (बनारसीदास चतुर्वेदी)
- विज्ञान : शनि सबसे सुन्दर ग्रह (गुणाकर मुळे)
- निबंध : गेहूँ और गुलाब (रामवृक्ष बेनीपुरी)
- निबंध : सूखे चेहरों का भूगोल (मणिमधुकर)
- निबंध : मजदूरी और प्रेम (सरदार पूर्ण सिंह)
- निबंध : राजस्थान की सांस्कृतिक धरोहर (अगरचंद नाहटा)
- निबंध : राष्ट्र का स्वरूप (वासुदेव शरण अग्रवाल)
- व्यंग्य : ठिटुरता हुआ गणतंत्र (हरिशंकर परसाई)

पद्य भाग -

- कबीर- 1. मन रे ! जागत रहिये भाई
2. हमारे राम रहीम करीमा केसौ, अलह राम सति सोई।
3. काजी कौन कतेब बखानै।
4. मन रे! हरि भजि, हरि भजि हरि भजि भाई।
5. है मन भजन कौ प्रवान
संदर्भ : कबीर ग्रंथावली-श्यामसुंदरदास
- सूरदास 1. किलकत कान्ह घटुरुबनि आवत
2. मुरली तरु गोपालहिं भावत
3. देखौ माई सुन्दरता कौ सागर

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4. जसादा बार बार यों भाखे
5. चित्तै सुनौ स्याम प्रवीन

3. तुलसीदास

1. कबहुँक अंब अवसर पाई
2. अबलौ नसानी अब न नसैहौं
3. मोहि मूढ़ मन बहुत बियोगी
4. ऐसौ को उदार जग मांही
5. मन पछितैहैं अवसर बीते

संदर्भ : विनय पत्रिका, गीता प्रेस गोरखपुर

4. रहीम

पद

1. छवि भावन मोहनलाल की
2. कमल दल नैननि की उनमानि दोहा
1. प्रीतम छवि नैननि बसी
2. बसि कुसंग चाहत कुसल
3. रहिमन अंसुआ नैन ढरि
4. रहिमन औछे नरन सौ बैर भलौ ना प्रीति
5. रहिमन निज मन की बिथा
6. काज परै कछु और है
7. खैर खून खाँसी, खुसी बैर प्रीति मदपान
8. दादुर मोर किसान मन लग्यो रहे घन मॉहि
9. पावस देखि रहीम मन कोइल साधै मौन
10. रहिमन बिगरी आदि को बनै न खरचे दाम।

संदर्भ : रहीम ग्रन्थावली, विद्यानिवास मिश्र

5. पदमाकर कवित्त

1. कूलन में केलिन में कछारन में कुंजन में
2. और भाँति कुंजन में गुंजरित भौर भीर
3. पात बिनु कीन्हे ऐसी भाँति गुन बेलिन के
4. चित्तै चित्तै चारों ओर चौँकि चौँकि परै त्योहीं सवैया
5. या अनुराग की लखौं जहँ.....
6. फाग के भीर अभीरन में गहि गोविन्द लै गई भीतर गोरी।

6. मैथिलीशरण गुप्त

साकेत – अष्टमसर्ग से
कैकेयी का अनुताप
तदनन्तर बैठी सभा उटज के आगे


सौ बार धन्य वह एक लाल की माई।

7. प्रसाद : कामायनी, श्रद्धासर्ग – कहा आगन्तुक ने सस्नेह ..विजयिनी मानवता हो जाय।
8. पंत : 1. प्रथम रश्मि छन्द 1-13
2. भारत माता
9. निराला: 1. भारती जय विजय करे
2. बादल राग -1
3. दलित जन पर करो करुणा
4. फिर नभ घन घहराये।

10. रामधारी सिंह दिनकर –रश्मिस्थी-तृतीय सर्ग –आरंभिक अंश

सच्चे शूरमा

सच है विपत्ति जब आती है क्या कर सकती चिनगारी है।


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2. GENERAL ENGLISH

Duration: 3 hrs.

Max. Marks: 100

Minimum Pass Marks: 36

The syllabus aims at achieving the following objectives:

1. Introducing students to phonetics and enabling them to consult dictionaries for correct pronunciation (sounds and word stress)
2. Reinforcing selected components of grammar and usage
3. Strengthening comprehension of poetry, prose and short-stories
4. Strengthening compositional skills in English for paragraph writing, CVs and job applications.

The Pattern of the Question Paper will be as follows:

Unit A: Phonetics and Translation (20 marks)
(10 periods)

- | | |
|--|------|
| I Transcription of Phonetic Symbols | (05) |
| II Word Stress | (05) |
| III Translation of 5 sentences from Hindi to English | (05) |
| IV Translation of 10 Words from Hindi to English | (05) |

Unit B: Grammar and Usage (20 marks)
(10 periods)

- | | |
|----------------------------------|------|
| I Transformation of Sentences | (05) |
| a. Direct and Indirect Narration | |
| b. Active and Passive Voice | |


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c. Interchange of Degrees of Comparison

II Modals (05)

III Sequence of Tenses (05)

IV Punctuation of a Short Passage with 10 Punctuation Marks (05)

Unit C: Comprehension
(25 periods)

(30 marks)

Following Essays and Stories in *Essential Language Skills* revised edition compiled by Macmillan for University of Rajasthan General English B. A. /B. Com./B. Sc.

William Blake

The Little Black Boy

Sujata Bhatt

Voice of the Unwanted Girl

Ruskin Bond

Night Train for Deoli

M.K. Gandhi

The Birth of Khadi

J.L. Nehru

A Tryst with Destiny

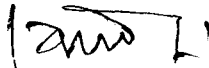
A.P.J. Abdul Kalam

Vision for 2020

Five questions to be answered out of eight questions Two marks each based on 6 units of the prescribed texts

Five questions of 3 marks each to be answered from the given passage:
15 marks

1 Vocabulary question from the given passage (at least 10 words) : 5 Marks


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Unit D: Compositional Skills

(30 marks)

(15 periods)

I Letters-Formal and Informal	(10)
II CVs and Job Applications	(10)
III Paragraph Writing	(10)

Recommended Reading:

1. Sasikumar, V., Dutta and Rajeevan, A Course in Listening and Speaking-I Foundation Books. 2005.
2. Sawhney, Panja and Verma eds. English At the Workplace, Macmillan 2003.
3. Singh, R.P. Professional Communication. OUP. 2004
4. Judith Leigh. CVs and Job Applications. OUP. 2004
5. Arthur Waldhorn and Arthur Zeiger, English Made Simple. Upa and Co.
6. Gunashekar ed. A Foundation English Course for Undergraduates. Book I, CIEFL, Hyderabad.
7. Quirk and Greenbaum: A University Grammar of English Longman, 1973

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3. **3 COMPULSORY PAPER OF ENVIRONMENTAL STUDIES**

Compulsory in I Year for all streams at undergraduate level

Scheme of examination

Time	Min Marks	Max. Marks
3 hrs	36	100

This paper will contain 100 multiple choice questions. Each question will carry 1 mark.

Students should be encouraged to visit places of Environmental Importance including Natural and Manmade Habitat.

Note:

1. The marks secured in this paper shall not be counted in awarding the division to a candidate.
2. The candidates will have to clear this compulsory paper in three chances.
3. Non-appearing or absence in the examination of compulsory paper will be counted as a chance.

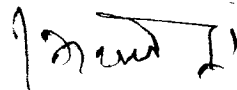
Unit.1: The Multidisciplinary nature of environmental studies

Definition, scope and importance- Relationship between Environmental Studies and other branches of science and social sciences.

Need for Environmental awareness, Environmental education in present day context.

Unit.2: Natural Resources and Challenges

- a. Natural resources and associated problems, Classification of resources: renewable resources, non renewable resources, classes of earth resources, resources regions: Definition and criteria, resource conservation.
- b. Forest resources: Use and over- exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people.
- c. Water resources: Use and over-utilization of surface and groundwater, floods, drought conflicts over water, dams-benefits and problems.
- d. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.

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- e. Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticides problems, water logging, salinity, case studies.
- f. Energy resources: Growing energy need, renewable and nonrenewable energy sources, use of alternate energy sources. Case studies.
- g. Land resources: Land as a resource, Land degradation man induced Landslides, soil erosion and desertification.
 - Role of an individual in conservation of natural resources.
 - Equitable use of resources for sustainable lifestyles.

Unit 3: Ecosystems, Concepts, Structure, Functions and Types

- Concept of an ecosystem
- Structure and function of an ecosystem
- Producers, consumers and decomposers
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids
- Introduction, types characteristics features, structure and function of the following ecosystem:
 - a. Forest ecosystem, Tropical Temperate and Alpine Ecosystem
 - b. Grassland ecosystem and Their Types
 - c. Desert ecosystem with emphasis on Thar Desert
 - d. Aquatic ecosystems(ponds, streams, lakes, rivers, oceans, estuaries) and Wet Lands

Unit 4: Biodiversity and its conservation

- Introduction –Definition, genetic, species and ecosystem diversity
- Biogeographically classification of India
- Value of biodiversity :consumptive use, productive use, social ethical, aesthetic and option values
- Biodiversity at global, National and local level
- India as a mega-diversity nation
- Hot-spot of biodiversity
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts
- Endangered, Threatened and endemic species of India
- Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity
- Red Data Book

Unit 5 : Environmental Pollution and Control Measures

Definition

- Causes, effects and control measures of:
 - a) Air Pollution
 - b) Water Pollution
 - c) Soil Pollution
 - d) Marine Pollution
 - e) Noise Pollution
 - f) Thermal Pollution
 - g) Nuclear Hazards
- Solid waste management” Causes, effects and control measures of urban and industrial wastes
- Role of an individual in prevention of pollution
- Pollution case studies
- Disaster management: floods earthquake, cyclone and landslides

Unit 6 : Social issues, Environment, Laws and Sustainability

- From Unsustainable to Sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people; its problems and concerns. Case studies
- Environmental ethics: Issues and possible solution.
- Climate change, global warming, acid rain ozone layer depletion, nuclear accidents and holocaust. Case studies
- Wasteland reclamation.
- Consumerism and waste product.
- Environmental Protection Act.
- Air (Prevention and Control of Pollution) Act
- Wild life protection Act
- Forest Conservation Act
- Biological Diversity Act
- Issues involved in enforcement of environmental legislation
- Public Awareness.

Unit 7: Human Population and the Environment

- Population growth, variation among nations
- Population explosion-Family Welfare Programme
- Environment and Human health
- Human Rights
- Value Education
- HIV/AIDS
- Women and Child Welfare
- Role of Information Technology in Environment and human health
- Case Studies

Suggested Readings:-

1. Chauhan, Surendra Singh. 2001. Biodiversity, Biopiracy and Biopolitics: The Global Perspectives, Kalinga Publications, New Delhi.
2. Chauhan, Surendra Singh. 2004. Environmental Protection and Management: From Stockholm to Rio and After, Kalinga Publications, New Delhi.
3. Diwan A.P. and Arora D.K.1995. Human Ecology Anmol Publication Pvt.Ltd.,New Delhi.
4. Dubey, R.M.1992. Human Ecology and Environmental Education,Chaugh Publications,Allahabad.
5. Goudie,Andrew.The Human Impact.
6. Husain Maxia.1994 Human Geography,Rawat Publication,Jaipur.
7. Johnston, R.J.Ed.1986 Dictionary of Human geography,National Publication,New Delhi.
8. Malik,S.L.and Bhattacharya D.K.1986. Aspects of Human Ecology,Northern Book Center,New Delhi.
9. Mishra,R.P and Bhooshan,B.S.1979.Human Settlements in Asia.Public,Polices and programmes Haritage publisher,New Delhi.
- 10.Nathawat, G.S.1985. Human Ecology,An Indian perspective,Indian Human Ecology Council,Jaipur.
- 11.Russel, Bartrand, 1976.Impact of Science of society Unwin,Publisher,Indian. (paper back).
- 12.Sinha Rajiv, 1996.Gloobal Biodiversity Ina.,Shri publication,Jaipur.
- 13.Sinha Rajiv K., 1994. Development without Desertrction
- 14.Environmentalist,Jaipur. Sinha Rajiv K., 1996.Environmental Crises and Human at Risk,In A Shri Publication,Jaipur.
- 15.Smith, Dlanne, 1984.Urban Ecology,George Allen,London.
- 16.Swarnkar, R.C.1985.Indian Tribes.Printwell publisher,Jaipur.
- 17.Tivy,Joy and O'Hugegreg,1985.Human Impact on the Ecosystem Edinburgh George Allen Boyd.
- 18.United Nations Development Report, 1996.Human Development Report, 1996.Oxford University Press,Delhi.
- 19.Vannathony & Rogers Paul, 1974. Human Ecology and World Development,Flehum Press,New York.

4. Syllabus of Elementary Computer Applications

Work load : Teaching 2 hours per week
Practical 2 hours per week

Max Marks: 100 (Main University Exam: Theory -60 Marks, Practical- 40 Marks)

Each candidate has to pass in Theory and Practical Examinations separately.

Main University Examination : Question pattern for Theory Paper *Max Marks: 60*

Part – I (very short answer) consists 10 questions of **one marks** each with two questions from each unit. Maximum limit for each question is up to 20 words.

Part – II (short answer) consists 5 questions of **two marks** each with one question from each unit. Maximum limit for each question is up to 40 words.

Part – III (Long answer) consists 5 questions of **eight marks** each with one question from each unit with internal choice. Maximum limit for each question is up to 400 words.

Unit – I

Introduction to Information Technology, evolution and generation of computers, type of computers, micro, mini, mainframe and super computer. Architecture of a computer system: CPU, ALU, Memory (RAM, ROM families) cache memory, input/output devices, pointing devices.

Concept of Operating system, need types of operating systems, batch, single user, multi-processing, distributed and timeshared operating systems, Introduction to Unix, Linux, Windows, Windows NT. Programming languages – Low level and high level languages, generation of languages, 3 GL and 4 GL languages, Graphic User Interfaces.

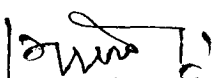
Unit – II

Word Processing Tool - Introduction, Creating, Saving, Copy, Move and Delete, Checking Spelling and Grammar, Page Layout, interface, toolbars, ruler, menus, keyboard shortcut, editing, Text Formatting, insert headers and footers, Bullets and Numbering, Find and Replace etc., Insert Table and Picture, Macro, Mail Merge.

Power Point: Creating and viewing a presentation, managing Slide Shows, navigating through a presentation, using hyperlinks, advanced navigation with action setting and action buttons, organizing formats with Master Slides, applying and modifying designs, adding graphics, multimedia and special effects

Unit – III

Electronic Spreadsheet - Worksheet basics, Create, save and open a worksheet, Entering data text, numbers and formula in a worksheet, Inserting and deleting cells, cell formatting, inserting rows and columns in a worksheet, formatting worksheets, Using various formulae and inbuilt functions, Update worksheets using special tools like spell check and auto correct, Setup the page


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and margins of worksheets for printing. Format the data in the worksheet globally or selectively, creating charts. Enhance worksheets using charts, multiple worksheets-concepts

Unit – IV

The Internet - History and Functions of the Internet, Working with Internet, Web Browsers, World Wide Web, Uniform Resource Locator and Domain Names, Uses of Internet, Search for Information, Email, Chatting, Instant messenger services, News, Group, Teleconferencing, Video-Conferencing, E-Commerce and M-Commerce.

Manage an E-mail Account, E-mail Address, configure E-mail Account, log to an E-mail, Receive E-mail, Sending mails, sending files an attachments and Address Book, Downloading Files, online form filling, E-Services - E-Banking and E-Learning.

Unit - V

Social, Ethical and Legal Matters - Effects on the way we Work Socialise, Operate in other areas, Cyber crime, Prevention of crime, Cyber law: Indian IT Act, Intellectual property, Software piracy, Copyright and Patent, Software licensing, Proprietary software, Free and Open source software.

Network Security - Risk assessment and security measures, Assets and types (data, applications, system and network), Security threats and attacks (passive, active); types and effects (e.g. Identity theft, denial of services, computer virus etc.), Security issues and security measures (Firewalls, encryption/decryption). Prevention.

Question Paper pattern for Main University Practical Examination

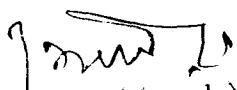
Max Marks: 40

Practical

The practical exercises will be designed to help in the understanding of concepts of computer and the utilization in the areas outlined in the theory syllabus. The emphasis should be on practical usage rather than on theoretical concepts only.

The practical examination scheme should be as follows

- Three Practical Exercise (including Attendance & Record performance) 30 marks
 - Operating system
 - MS Word
 - MS Excel
 - MS Power Point
 - Internet
- Viva-voce 10 marks


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पूर्णांक : 100

5 बी.ए. प्रथम वर्ष : प्रारम्भिक हिन्दी

अवधि : 3 घण्टे

अंकों का विभाजन

- | | |
|------------------------------|--------|
| 1. पुस्तकों पर आधारित प्रश्न | 50 अंक |
| 2. व्याकरण से संबंधित प्रश्न | 24 अंक |
| 3. रचना से संबंधित प्रश्न | 26 अंक |
| (क) लोकोक्तियाँ मुहावरे | |
| (ख) पत्र लेखन अथवा निबंध | |

पाठ्यक्रम

1. गद्य संग्रह
2. व्याकरण : शब्द विचार, वाक्य विन्यास, वाक्य खण्ड, पद क्रम का ज्ञान तथा इनमें होने वाली सामान्य त्रुटियों का ज्ञान।
3. (क) मुहावरों एवं लोकोक्तियों का प्रयोग, वाक्यों में रिक्त स्थानों की पूर्ति, समान दिखने वाले शब्दों का अर्थ भेद अथवा वाक्यों में प्रयोग
(ख) पत्र लेखन अथवा निबंध

पाठ्य पुस्तकें

1. गद्य-संग्रह-राष्ट्रीय गौरव के चिन्ह- डॉ. हरिकृष्ण देवसरे
प्रकाशक-नेशनल पब्लिशिंग हाउस, नई दिल्ली

व्याकरण एवं रचना

1. आधुनिक हिन्दी व्याकरण तथा रचना - लेखक कृष्ण विकल
प्रकाशक-नेशनल पब्लिशिंग हाउस, नई दिल्ली
2. सुबोध व्याकरण एवं रचना-सम्पादक-व्यथित हृदय-संशोधनकर्ता-डॉ.अम्बा प्रसाद सुमन
प्रकाशक - श्रीराम मेहरा एण्ड कम्पनी, आगरा


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OPTIONAL SUBJECT

1 ENGLISH LITERATURE

The Syllabus aims at achieving the following objectives:

1. Interpretation and appreciation of selected texts from the genres of poetry, drama, prose and fiction.
2. Strengthening skills of note making, summarizing and dialogue writing.
3. Understanding texts with specific reference to genres, forms and literary terms.

Paper I: Poetry and Drama

Maximum Marks: 10

Duration: 3 hrs

Min. Pass Marks: 36

Question No. 1: References to Context from unit A, B & C.

Candidate will be required to explain **four (4)** passages of Reference to Context out of **Eight (8)** of five marks each, with a total of **20 Marks**.

Question No. 2: Will also be compulsory. The student will be required to attempt 5 questions out of 10, to be answered in about 5 lines each. Each question will carry 4 marks to a total of **20 marks**.

The other 3 questions will be Essay – type questions of **20 marks** each, one from each section with internal choice.


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SECTION A

The following poems from *Strings of Gold* Part I Ed. **Jasbir Jain** (Macmillan)

W. Shakespeare:

Shall I Compare Thee
Not Marble, nor the Guided Monuments
The Marriage of the True Minds

J. Donne: Goe and Catche a Falling Starre

R. Herrick : To Daffodils

J. Herbert : Virtue

J. Milton:

On His Blindness
On His Twenty Third Birthday

J. Dryden: A Song for St. Cecilia's Day

SECTION B

The following poems compiled by Macmillan for the University of Rajasthan.

Kabir

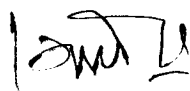
It is Needless to Ask a Saint the Caste to which he belongs.

Rabindra Nath Tagore

Where The Mind is Without Fear

Toru Dutt

The Lotus
Our Casuarina Tree


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Sarojini Naidu

Indian Weavers

Song of Radha, the Milkmaid

SECTION C

W. Shakespeare: *Merchant of Venice*

Recommended Reading:

Hudson: *History of English Literature*

Boris Ford ed: *Pelican Guide to English Literature.*

Paper II: Prose and Fiction

Maximum Marks: 100

Duration: 3 hrs

Min. Pass Marks: 36



Question No. 1: References to Context from unit A & B only.

Candidate will be required to explain **four (4)** passages of Reference to Context out of **Eight (8)** of five marks each, with a total of **20 Marks**.

Question No. 2: Will also be compulsory. The student will be required to attempt 5 questions out of 10, to be answered in about 5 lines each. Each question will carry 4 marks to a total of **20 marks**.

The other 3 questions will be Essay – type questions of **20 marks** each, one from each section with internal choice.

SECTION A


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The following Essays from *English Prose Selections* (O.U.P.) ed. Dr. S.S. Deo et al.

J.H. Newman:	A Gentleman
R.L. Stevenson:	El Dorado
B. Russell:	Machine and Emotions
M.K. Gandhi:	Fearlessness
S. Radhakrishnan:	Democracy
H. Belloc:	On Educational Reform
J.L. Nehru:	Animals in Prison

SECTION B

The following short stories from the collection *Popular Short Stories* ed. By Board of Editors (O.U.P.)

K. Mansfield:	A Cup of Tea
R. Tagore:	Living or Dead
H.H. Munro (Saki):	The Open Window
R.K. Narayan:	The Gateman's Gift
E. Hemingway:	Old Man at the Bridge

George Orwell:	<i>Animal Farm</i>
R.K. Narayan	<i>Bachelor of Arts</i>


SECTION C

The following units from *English at the Workplace eds.* Sawhney Panja and Verma (Macmillan)

Unit 2:	Language and Culture
Unit 4:	Ways of Reading
Unit 7:	Writing with a Purpose
Unit 9:	Talking on the Telephone

Recommended Reading:

Vandana R. Singh: *The Written Word* (O.U.P.)


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बी.ए. प्रथम वर्ष : प्रथम प्रश्न पत्र
आदिकाल एवं भक्तिकाल

हिन्दी साहित्य

पूर्णांक : 100

अवधि : 3 घण्टे

1. विद्यापति
1. नन्दक नन्दन कदम्बेरि तरुतरे
2. सुन रसिया, अब न बजाऊ बिपिन बैसिया
3. विरह व्याकुल बकुल तरुतर, पेखल नन्द-कुमार रे
4. कुंज-भवन सँ चलि भेलि हे
5. सखि हे कतहुँ न देखि मघाई
(विद्यापति - शिव प्रसाद सिंह)
2. कबीरदास
1. मन के अंग - प्रथम 15 साखी
2. दुलहिनी गावहुँ मंगलचार
3. संतो भाई आई ग्यान की आँधी रे
4. पंडित बाद बदते झूठा
5. काहे रे नलिनी तूँ कुम्हिलानी
6. अरे इन दोऊ न राह न पाई
(कबीर ग्रंथावली - श्यामसुंदर दास)
3. जायसी - षट् ऋतु वर्णन खण्ड (जायसी ग्रंथावली - रामचन्द्र शुक्ल)
4. सूरदास
भ्रमर गीत सार - रामचन्द्र शुक्ल
पद संख्या - 8, 15, 21, 31, 36, 41, 52, 64, 65, 116, 130, 237, 316, 375, 400
5. मीराबाई
सं नरोत्तम स्वामी
पद संख्या - 1, 3, 4, 5, 10, 11, 12, 14, 15, 16, 20, 23, 28, 31, 32
6. तुलसीदास
अयोध्या काण्ड - 127 दोहा से 133 तक (प्रकाशक-गीताप्रेस गोरखपुर)
7. कवितावली
5 पद : राम वन गमन (प्रकाशक-गीताप्रेस गोरखपुर)
8. रसखान
कुल 15 सवैया (सवैया संख्या-1, 2, 3, 5, 7, 11, 18, 21, 25, 27, 31, 32, 34, 37, 41) रसखान रचनावली - सम्पादक : विद्यानिवास मिश्र
9. नंददास
भंवर गीत (केवल प्रथम तीस पद)

अंक विभाजन : व्याख्या - कुल चार (एक कवि से एक ही व्याख्या पूछी जाएगी)

आन्तरिक विकल्प देय (4 x 10 = 40) अंक

आलोचनात्मक प्रश्न- कुल चार (4 x 15 = 60) अंक

अंतिम प्रश्न टिप्पणी परक होगा। कुल दो टिप्पणियाँ 7½ - 7½ अंकों की पूछी जाएगी।

आन्तरिक विकल्प देय होगा।


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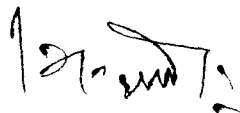
बी.ए. प्रथम वर्ष : हिन्दी साहित्य : द्वितीय प्रश्न पत्र
कहानी रेखाचित्र तथा संस्मरण

पूर्णांक : 100

अवधि : 3 घण्टे

1. कहानी : चन्द्रधर शर्मा गुलेरी – बुद्ध का कौंटा
प्रेमचंद – पूस की रात
विश्वरनाथ शर्मा कौशिक – ताई
प्रसाद – पुरस्कार
जैनेन्द्र – पाजेब
यशपाल – परदा
उषा प्रियंवदा – वापसी
रांगेय राघव – पंच परमेश्वर
2. रेखाचित्र तथा संस्मरण :
रेखाचित्र : शिवपूजन सहाय – महाकवि जयशंकर प्रसाद
सेठ गोविन्ददास – मकदूम बख्श
रामवृक्ष बेनीपूरी – रजिया
हजारी प्रसाद द्विवेदी – एक कुत्ता और एक मैना
विष्णुकांत शास्त्री – ये हैं प्रोफेसर शशांक
- संस्मरण : अज्ञेय – स्मरण का स्मृतिकार (राय कृष्णदास)
नगेन्द्र – दादा स्व. पं. बालकृष्ण शर्मा 'नवीन'
माखनलाल चतुर्वेदी – तुम्हारी स्मृति
महादेवी वर्मा – निराला भाई

अंक विभाजन : व्याख्या – कुल चार (एक पाठ से एक ही व्याख्या पूछी जाएगी)
आन्तरिक विकल्प देय (4 x 10 = 40) अंक
आलोचनात्मक प्रश्न – कुल चार (4 x 15 = 60) अंक
अंतिम प्रश्न टिप्पणी परक होगा। कुल दो टिप्पणियाँ 7½ - 7½ अंकों की पूछी जाएगी।
आन्तरिक विकल्प देय होगा।


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3. URDU
Paper I : Prose and Drama

Scheme:

Min. Pass Marks 72

Max.Marks 100

3 Hrs. Duration

Min.Pass Marks 36

Books Prescribed:

1. Meyare Adab Hissaye Nasr-Published by Educational Book House, Aligarh (U.P)
2. Darwaza Khol Do-by Krishna Chandar

Division of Marks:

Unit I	Ten short answer type questions.	Marks 20
Unit II	Explanation of Two Out of Three Texts.	Marks 20
Unit III	Critical Appreciation of a Prose Writer with Internal Choice	Marks 20
Unit IV	Critical Appreciation of Prescribed Drama with Internal Choice	Marks 20
Unit V	Salient Features of Urdu Drama/Technique Or Summary of A Prose Lesson	Marks 20

Total : Marks 100

Note: Attempt at least one question from each unit. All the short answer type questions of unit I are compulsory.

Paper II : Poetry and Rhetorics

Max.Marks 100

3 Hrs. Duration

Min.Pass Marks 36

Books Prescribed:

1. Shehpare (Nazm) Published by Idare Nashr-O-Ishat,Allahabad University-Allahabad, (1991 edition)

The following are prescribed from the book:

- (a) Ghazaliyat : Meer, Atish & Ghalib
 - (b) Nazmen: Iqbal, Nazeer & Josh.
2. Jadeed Idemul Balaghat by Abdul Majeed Khan

The following Rhetorics (Sanaya) Only:


1. Tazad, 2. Laf o Nashr, 3. Talmeeh, 4. Husne Taleel, 5. Mubalgha, 6. Tashbeeh, 7. Istiyara, 8. Marratun Nazeer, 9. Siyaqatuladad, 10. Tahseequs Sifat, 11. Iham, 12. Majaz, 13. Tajahule Arifana, 14. Ishateqaq.

Division of Marks:

Unit I	Ten short answer type question.	Marks 20
Unit II	Explanation of Two out of Three Passages of Ghazal & Nazm.	Marks 20
Unit III	Appreciation of Ghazal Writer with Internal Choice	Marks 20
Unit IV	Appreciation of Nazm Writer with Internal Choice	Marks 20
Unit V	Meaning and Defination of Four Rhetorics with Internal Choice	Marks 20

Total : Marks 100

Note: Attempt at least one question from each unit. All the short answer type questions of unit I are compulsory.


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4 PERSIAN

Paper-I

M.M: 100

3Hrs.

Min. Pass Marks 36

Book Prescribed

1. Farsi Wa Dastoor (Pt-I) By Zhara Khan leri Published By Idara-e-Adabiyat-e-Delhi
Only the following lessons at page No of the book are prescribed:
3,9,13,19,24,65,85,93,96,126,150,156,165,188.
2. Intekhb-e-Nazm-o-Nasar Farsi Published by Aligarh Muslim University only the following lessons is prescribed
Intekhab-e-Gulistan-e-Sadi-Hikayat (Five only)
3. Vokola-e-Murafa-a (Drama) by Mirza Jafar Published Ram Narayan Beni Madho Allhabad (Page No. 83 to 112)

Division of Marks:


Unit-1(A) Short Answer type Question 10 out of 15 all the full syllabus based.	10
(B) Translation of Two passages out of three into Urdu/Hindi/English	20
Unit-2 Translation of One passages out of two into Urdu/Hindi/English	10
Unit-3 Biographical Questions on Prescribed text writer with Internal Choice	20
Unit-4 General Questions on Fiction/ Character (<i>Drama</i>)	20
Unit-5 Summary of Prescribed lessons with Internal Choice	20

Total Marks 100

Book Recommended

1. Farhang-e-Amerah (Urdu/Arbi/Persian)
2. Sherul Ajam By Shibli Nomani Vol. 1 to 3)
3. Tareekh-e-Adabiyate Iran By Raza Zada Shafaq (Urdu Translation)
4. Sanadeed-e-Ajam By Mehdi Hasan Nasri
5. Tareekh-e-Adab-e-Farsi By Shareef Husain Qasami
6. Amuzish Zaban-e-Farsi Daur-e-Muqaddemati by Yadollah Samrah (Vol. 1 to 4)

Note: Unit-1 Both A and B Questions are compulsory.


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Paper-II

M.M: 100

3Hrs.

Min. Pass Marks 36

Book Prescribed

1. Farsi Wa Dastoor (Pt-I) By Zhara Khan Ieri Published By Idara-e-Adabiyat-e-Delhi
Only the following lessons at page No 1,34,77,118,185,193 of the book are prescribed:
2. **Manzoomat**
Intekhab-e-Nazam-o-Nasar Farsi Published by Aligarh Muslim University
Iqbal : Khuda, Insan, Hoor, Shayar, Nawa-e-Mazdoor.
3. **Ghazliyat**
Nisab-e-Jadeed Farsi (Hissa Nasar Wa Nazam) Published by Jayyed Press Delhi.
Ghazliyat-e-Hafiz First Three
Ghazliyat-e-Ameer Khusro First Three
Ghazliyat-e-Sheharyar ~~First Three~~ First Three
4. Jadeed Ilmul Balaghat by Abdul Majeed Khan (only the following Sanaya)
 - i. Tazad
 - ii. Laffo Nashr
 - iii. Talmeeh
 - iv. Husn-e-Taleel
 - v. Istiara
 - vi. Ieham
 - vii. Ishteqaaq
 - viii. Tashbeeh

Division of Marks:

Unit-1(A) Short Answer type Question 10 out of 15 all the full syllabus based.	10
(B) Translation of Two passages out of three from Manzoomat into Urdu/Hindi/English	20
Unit-2 Translation of Two passages out of three from Ghazliyat into Urdu/Hindi/English	20
Unit-3 Biographical/Critical Question on Ghazal writer with Internal Choice	20
Unit-4 Biographical/Critical Question on Nazm writer with Internal Choice	20
Unit-5 Meaning with Definition & Examples of two Rhetoric's with Internal Choice	10

Total 100




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Book Recommended

1. Farhang-e-Amerah (Urdu/Arbi/Persian)
2. Sherul Ajam By Shibli Nomani Vol. 1 to 3)
3. Tareekh-e-Adabiyate Iran By Raza Zada Shafaq (Urdu Translation)
4. Sanadeed-e-Ajam By Mehdi Hasan Nasri
5. Tareekh-e-Adab-e-Farsi By Shareef Husain Qasami
6. Amuzish Zaban-e-Farsi Daur-e-Muqaddemati by Yadollah Samrah (Vol. 1 to 4)

Note: Unit-1 Both A and B Questions are compulsory.


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5 ARABIC

Scheme : Max. Marks 200 Min. Pass Marks 72

Paper I : Prose, Translation and History of Arabic Literature :

Max. Marks 100 3 Hrs. Duration Min. Pass Marks 36

Syllabus and Division of Marks :

1. Translation of Urdu/English passages into Urdu/English 40
2. Translation of Urdu/English passages into Arabic 20
3. Summary of a lesson 10
4. Life Sketch of a Prose writer. 15
5. Question of elementary Arabic Literature. 15

Total Marks : 100

Books Prescribed :

- 1., Alquiratul Rashidah Part-I Following twenty lessons only : 3, 4, 5, 6, 7, 8, 9, 12, 13, 18, 22, 24, 29, 35, 36, 44, 45, 46, 49, 58.
2. Aliquiratul Reshada-alk-juz ussan, Morattiba Abdul Fath Sabrimwa Ali Umar. The following twenty lessons only : 3, 4, 7, 10, 13, 15, 19, 23, 31, 32, 39, 40, 41, 43, 44, 47, 55, 56, 57 and 58.

Books Recommended :

Arabi Adab Ki Tareikh Kh by Dr. Ebteshamudin Naqvi.

Paper II : Poetry, Translation Grammar and Composition

Max. Marks 100 3 Hrs. Duration Min. Pass Marks 36

Syllabus and Division of Marks :

1. Extracts from Arabic Text Poems into Urdu/English.

Syllabus B.A. Part-I

2. Translation of Urdu/English passages into Arabic 20
3. Life Sketch of a Poet. 10
4. Composition 15
5. Grammar 15

Total Marks : 100

Book Prescribed :

Nukhbatul Abab, Murattiba Shoba-e-Arabi.
Muslim University, Aligarh, Ishaat-e-Sani.

The following pages :

156-164, 172-176, 181-183 & 185-190.

Grammar : The following topics only.

Ilm-ulsarf-wue-nahu, Alfail-al-Shah, Ajfafl-ul-mufssa I, Afa I-
ul-majhool-muzaif, Abwab-ul-failulsalida, Allhad dul-fail, Tafsil,
Mufaaelat, Tafaal, Altafaal, Alfaal, Astaffal, Altamiz Almus tana, Al
sum-ul-mutasarrifa, Ghair-ul-muttasarif, Alismuls-staful-Mafool,
Asma-ul-affal. Afaal,-ul-madanwalzam, Affal-ul-Mazarebat, Alnarf-
ul-qassam. Hurful-nida, Humzatul-wasal-qatta, Altechlul-uenvi.

Book Recommended for Translation

Darial-ul-Adab Udhawwaj R. Zafar Iqbal.

6 संस्कृत

संस्कृत प्रथम वर्ष 2016-17

सामान्य निर्देश -

1. प्रत्येक परीक्षा में दो-दो प्रश्नपत्र होंगे।
2. प्रत्येक प्रश्नपत्र में न्यूनतम उत्तीर्णांक 36 तथा पूर्णांक 100 होंगे और समय 3 घण्टे का होगा।
3. परीक्षा का माध्यम हिन्दी/अंग्रेजी होगा, परन्तु प्रश्नपत्र केवल हिन्दी में बनाया जायेगा। परीक्षार्थी को छूट होगी कि वह हिन्दी, संस्कृत अथवा अंग्रेजी में किसी एक भाषा में उत्तर दे सके। यदि परीक्षक ने किसी प्रश्न विशेष के लिए भाषा का निर्देश कर दिया है तो उस प्रश्न का उत्तर उसी भाषा में देना अनिवार्य होगा।
4. संस्कृत केवल देवनागरी लिपि में ही लिखा जाना अपेक्षित है।
5. निर्धारित ग्रन्थ में से अनुवाद, व्याख्या, सरलार्थ एवं समालोचनात्मक प्रश्न पूछे जावेंगे।
6. प्रत्येक प्रश्नपत्र में 10 प्रतिशत अंक संस्कृत भाषा में उत्तर के लिये निर्धारित हैं।
7. प्रत्येक प्रश्नपत्र में दो भाग होंगे, जिसमें प्रथम 'अ' भाग बहुविकल्पीय (वस्तुनिष्ठ) एवं लघूत्तर प्रश्नों का होगा। 'ब' भाग में निबन्धात्मक प्रश्न होंगे। 'अ' भाग में कुल 20 प्रश्न होंगे, जिनका पूर्णांक 30 होगा। इनके समाधान के लिये एक घण्टे का समय निर्धारित है। छात्र (परीक्षार्थी) को परीक्षा प्रारंभ होते ही सर्वप्रथम 'अ' भाग हल करने के लिए दिया जायेगा तथा एक घंटा समाप्त होते ही पुनः संकलित कर लिया जायेगा। 'ब' भाग का हल उत्तरपुस्तिका में प्रस्तुत करना है, जिसके पूर्णांक 70 हैं तथा कालावधि 2 घण्टे निर्धारित है।

परीक्षा योजना-

न्यूनतम उत्तीर्णांक-72

पूर्णांक-200

प्रथम प्रश्न-पत्र

अंक-100

द्वितीय प्रश्न-पत्र

अंक-100

प्रथम प्रश्नपत्र

दृश्य एवं श्रव्य काव्य

समय : 3 घण्टे

अंक 100

प्रथम प्रश्न में निर्धारित ग्रन्थ में से लघूत्तरात्मक निबन्धात्मक, अनुवाद, व्याख्या व समालोचनात्मक प्रश्न पूछे जायेंगे। 15 प्रश्न लघूत्तरात्मक होंगे जिनमें से प्रथम 5 प्रश्नों का उत्तर संस्कृत भाषा के माध्यम से देना होगा, प्रत्येक प्रश्न के लिए 2 अंक निर्धारित हैं। जिस प्रश्नपत्र में संस्कृत अनुवाद/ निबन्ध पूछे गए हैं वहाँ संस्कृत में उत्तर अपेक्षित नहीं हैं।

पाठ्यक्रम

1. स्वप्नवासवदत्तम् (भास) 25 अंक
2. नीतिशतकम् (भर्तृहरि) 30 अंक
3. रघुवंशम् प्रथम सर्ग 25 अंक
4. अनुवाद- संस्कृत से हिन्दी-अपठित गद्य- 10 अंक
5. हिन्दी से संस्कृत दस में से पांच वाक्य 10 अंक

अंक- विभाजन

क्र. सं.	पुस्तक का नाम	लघूत्तरात्मक प्रश्न	अंक	निबन्धात्मक प्रश्न संख्या	अंक	अंको का योग
1.	स्वप्नवासवदत्तम्	लघूत्तरात्मक 3	06	02	19	6+19=25
2.	नीतिशतक	लघूत्तरात्मक 3	06	02	24	6+24=30
3.	रघुवंशम् (प्रथमसर्ग)	लघूत्तरात्मक 3	06	02	19	6+19=25
4.	अनुवाद					10+10=20
	कुल	5	30	08	70	100

प्रश्न-पत्र का निर्माण निम्नानुसार होगा -

1. सभी प्रश्न अनिवार्य हैं।
2. प्रत्येक पुस्तक से लघूत्तरात्मक व निबन्धात्मक, व्याख्यात्मक प्रश्न पूछे जायेंगे। लघूत्तरात्मक प्रश्न के 2 अंक निर्धारित हैं।

निबन्धात्मक / व्याख्यात्मक प्रश्न

स्वप्नवासवदत्तम्

1. 4 श्लोक पूछकर उनमें से किसी 2 की सप्रसंग व्याख्या पूछी जायेगी। 12 अंक
2. दो विवेचनात्मक प्रश्न पूछकर किसी एक का उत्तर देय है। 7 अंक

नीतिशतकम्

1. 4 श्लोक पूछकर उनमें से किन्हीं 2 श्लोकों की सप्रसंग व्याख्या पूछी जायेगी। 10+7=17 अंक
2. दो विवेचनात्मक प्रश्न पूछकर किसी एक प्रश्न का उत्तर देय होगा। 7 अंक

रघुवंशम् (प्रथम सर्ग)

1. 4 श्लोक पूछकर उनमें से किन्हीं 2 श्लोकों की सप्रसंग व्याख्या पूछी जायेगी 12 अंक
2. दो विवेचनात्मक प्रश्न पूछकर किसी एक प्रश्न का उत्तर देय होगा। 7 अंक

अनुवाद

1. संस्कृत से हिन्दी-अपठित गद्य का अनुवाद अपेक्षित है। 10 अंक
2. हिन्दी से संस्कृत- दस वाक्य देकर पांच वाक्यों का अनुवाद अपेक्षित है। 10 अंक

सहायक पुस्तकें—

1. स्वप्नवासवदत्तम्—डॉ. कृष्णदेव प्रसाद—जगदीश संस्कृत पुस्तकालय, झालानियों का रास्ता, जयपुर।
2. स्वप्नवासवदत्तम्—डॉ. रूपनारायण त्रिपाठी —रचना प्रकाशन, जयपुर।
स्वप्नवासवदत्तम्—संस्कृत हिन्दी व्याख्या —डॉ. जगन्नाथ पाण्डेय, जगदीश संस्कृत पुस्तकालय, झालानियों का रास्ता, जयपुर।
3. स्वप्नवासवदत्तम्—डॉ. सुभाष वेदालंकार, —अलंकार प्रकाशन, जयपुर।
4. स्वप्नवासवदत्तम्—डॉ. श्रीकृष्ण ओझा, अभिषेक प्रकाशन, चौडा रास्ता जयपुर।
5. नीतिशतकम्—डॉ. गोपाल शर्मा, हंसा प्रकाशन, जयपुर।
6. नीतिशतकम्—डॉ. श्रीकृष्ण ओझा,, राज प्रकाशन मंदिर, जयपुर।
7. नीतिशतकम्— डॉ. सुभाष वेदालंकार, हंसा प्रकाशन, जयपुर।
8. रघुवंशम् (प्रथम सर्ग)
9. संस्कृत व्याकरण— श्री निवास शास्त्री।
10. वृहद् अनुवाद चन्द्रिका — चक्रधर हंस नौटियाल
- 11.

द्वितीय प्रश्नपत्र

समय : 3 घण्टे

अंक—100

भारतीय संस्कृति के तत्व, पद्य साहित्य, अनुवाद एवं व्याकरण

प्रश्नपत्र योजना— प्रथम प्रश्न में निर्धारित ग्रन्थ में से लघूत्तरात्मक निबन्धात्मक, अनुवाद, व्याख्या व समालोचनात्मक प्रश्न पूछे जायेंगे।

पाठ्यक्रम

1. भारतीय संस्कृति के तत्त्व —

20 अंक

क— भारतीय संस्कृति—विषय, पृष्ठभूमि, विशेषताएँ।

ख— भारतीय संस्कृति के विकास की रूपरेखा—पूर्ववैदिक काल, वैदिकोत्तरकाल, मध्यकाल एवं आधुनिक काल।

ग— प्राचीनकाल— राजनैतिक, सामाजिक एवं आर्थिक स्थिति।

घ— वर्ण, आश्रम, एवं संस्कार।

ङ— शिक्षा (वैदिककाल से लेकर 7वीं शताब्दी तक)

च— लेखन—कला की उत्पत्ति।

छ— भारतीय दर्शन की प्रमुख विचारधाराएँ।

ज— भारतीय संस्कृति का मानव—कल्याण में योगदान।

2. किरातार्जुनीयम्(प्रथम सर्ग)—भारविकृत

25 अंक

3. व्याकरण—लघुसिद्धान्तकौमुदी—संज्ञा, एवं संधि प्रकरण

35 अंक

क—संज्ञा प्रकरण— 10 अंक

ख—अच् संधि— 10 अंक



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ग- हल् संधि- 10 अंक
घ- विसर्ग संधि- 05 अंक

4. निम्नलिखित कृत् प्रत्ययों से वाक्य निर्माण सम्बन्धी प्रश्न -

20 अंक

तव्यत्, अनीयर् - तव्यत्तव्यानीयरः

यत् - अचो यत्, ईद्यति, पोरदुपधात्

क्यप्- एतिस्तुशास्वृदृजुषः क्यप्, ह्रस्वस्य पिति कृति तुक्, शास् इदङ्हलोः

ण्यत्- ऋहलोर्ण्यत्

शतृ, शानच्- लटः शतृशानच्चावप्रथमासमानाधिरणे, आने मुक्

क्त, क्तवतु- क्तक्तवतुँ निष्ठा, रदाभ्यां निष्ठातो नः पूर्वस्य च दः

क्त्वा- समानकर्तृकयोः पूर्वकाले

ल्यप्- समासेऽनञ् पूर्वे क्तवो ल्यप्

तुमुन्- तुमुण्वुलौ क्रियायाँ क्रियार्थायाम्

अंक- विभाजन

क्र. सं.	पुस्तक का नाम	लघूत्तरात्मकप्रश्न	अंक	निबन्धात्मक प्रश्न संख्या	अंक	अंको का योग
1.	भारतीय संस्कृति के तत्त्व	लघूत्तरात्मक 3	06	02	14	06+14=20
2.	किरातार्जुनीयम् (प्रथम सर्ग)	लघूत्तरात्मक 4	08	02	17	08+17=25
3.	लघुसिद्धान्तकौमुदी-संज्ञा, एवं संधि प्रकरण	लघूत्तरात्मक 5	10	01	25	10+25=35
4.	कृत् प्रत्यय	लघूत्तरात्मक 3	06	07	14	06+14=20
	कुल	15	30	10	70	100

प्रश्न-पत्र का निर्माण निम्नानुसार होगा -

1. सभी प्रश्न अनिवार्य हैं।
2. प्रत्येक पुस्तक से लघूत्तरात्मक व निबन्धात्मक, व्याख्यात्मक प्रश्न पूछे जायेंगे। लघूत्तरात्मक प्रश्न के 2 अंक निर्धारित हैं।

निबन्धात्मक/ व्याख्यात्मक प्रश्न

भारतीय संस्कृति के तत्त्व

1. दो निबन्धात्मक प्रश्न पूछकर किसी एक का उत्तर अभीष्ट है। 10 अंक
2. दो विषयों पर टिप्पणी पूछ कर किसी एक का उत्तर अभीष्ट है। 04 अंक

किरातार्जुनीयम् (प्रथम सर्ग)

1. 4 श्लोक पूछकर उनमें से किन्हीं 2 श्लोकों की सप्रसंग व्याख्या पूछी जायेगी
6+6=12 अंक
 2. दो विवेचनात्मक प्रश्न पूछकर किसी एक प्रश्न का उत्तर देय होगा। 5 अंक
- कृत् प्रत्ययों से सम्बन्धित वाक्य निर्माण करवाया जाना अपेक्षित है।

व्याकरण—लघुसिद्धान्त कौमुदी

क. संज्ञा प्रकरण

4 सूत्र पूछकर किन्हीं 2 सूत्रों की सोदाहरण व्याख्या अपेक्षित है।
प्रत्येक व्याख्या के लिये 2 अंक निश्चित हैं।

04 अंक

ख. अच् संधि—

4 सूत्र पूछकर किन्हीं 2 सूत्रों की सोदाहरण व्याख्या अपेक्षित है।
प्रत्येक व्याख्या के लिये 2 अंक निश्चित हैं।

04 अंक

4 शब्दसिद्धि पूछकर किन्हीं 2 शब्दों की सूत्रनिर्देश पूर्वक सिद्धि
अपेक्षित है। प्रत्येक सिद्धि के लिये 2 अंक निश्चित हैं।

04 अंक

ग. हल् संधि—

4 सूत्र पूछकर किन्हीं 2 सूत्रों की सोदाहरण व्याख्या अपेक्षित है।
प्रत्येक व्याख्या के लिये 2 अंक निश्चित हैं।

04 अंक

4 शब्दसिद्धि पूछकर किन्हीं 2 शब्दों की सूत्रनिर्देश पूर्वक सिद्धि
अपेक्षित है। प्रत्येक सिद्धि के लिये 2 अंक निश्चित हैं।

04 अंक

घ. विसर्ग संधि—

2 सूत्र पूछकर किसी 1 सूत्र की सोदाहरण व्याख्या अपेक्षित है।

02 अंक

ङ कृत् प्रत्यय—

2 शब्दसिद्धि पूछकर किसी 1 शब्द की सूत्रनिर्देश पूर्वक सिद्धि अपेक्षित है।
(कृत्प्रत्यय के प्रयोग पूर्वक वाक्य निर्माण अपेक्षित है।

03 अंक

14 अंक

कुल योग— 100 अंक

सहायक पुस्तकें— भारतीय संस्कृति

1. भारतीय सांस्कृतिक निधि— डॉ. रामजी उपाध्याय, महामनापुरी, वाराणसी।
2. भारतीय संस्कृति—श्री रामदेव साहू, श्याम प्रकाशन चौडा रास्ता, जयपुर।
3. भारतीय संस्कृति— वाई.एस.रमेश—रचना प्रकाशन, जयपुर।
4. भारतीय संस्कृति— डॉ. रामजी उपाध्याय, महामनापुरी, वाराणसी।
5. भारतीय दर्शन— डॉ. बलदेव उपाध्याय, चौखम्बा प्रकाशन, वाराणसी।

किरातार्जुनीयम्

1. किरातार्जुनीयम् (प्रथम सर्ग)—आचार्य नवल किशोर कांकर, विद्या वैभव भवन, जयपुर।
2. किरातार्जुनीयम् (प्रथम सर्ग)—डॉ. विश्वनाथ शर्मा, आदर्श प्रकाशन, जयपुर।
3. किरातार्जुनीयम् (प्रथम सर्ग)— डॉ. सुभाष वेदालंकार, —अलंकार प्रकाशन, जयपुर।

अनुवाद के लिए

1. संस्कृत रचनानुवाद मंजरी—पं. नंदकुमार शास्त्री, अजमेरा बुक कम्पनी, त्रिपोलिया बाजार, जयपुर।
2. रचनानुवाद कौमुदी—डॉ. कपिलदेव द्विवेदी, वाराणसी।
3. रचनानुवादप्रभा—डॉ. श्रीनिवास शास्त्री, कुरुक्षेत्र।

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व्याकरण के लिये

1. लघुसिद्धान्त कौमुदी- डॉ. बसंत जैतली एवं डॉ. राजेश कुमार, जगदीश संस्कृत पुस्तकालय जयपुर।
2. लघुसिद्धान्त कौमुदी- श्रीमहेश सिंह कुशवाहा, चौखम्भा संस्कृत प्रतिष्ठान, दिल्ली।
3. लघुसिद्धान्त कौमुदी- श्री धरानन्द शास्त्री, मोतीलाल बनारसीदास, दिल्ली।
4. लघुसिद्धान्त कौमुदी- भीमसेन शास्त्री।
5. संस्कृत व्याकरण- श्री निवास शास्त्री।
6. वृहद् अनुवाद चन्द्रिका - चक्रधर हंस नौटियाल


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PHILOSOPHY

Scheme:

Two Papers

Min. Pass Marks 72

Max. Marks 200

Paper I

3 hrs. duration

Max. Marks 100

Paper II

3 hrs. duration

Max. Marks 100

General Instructions:

- (1) There shall be two question papers: Paper I and Paper II.
- (2) Both the question papers will be in two parts: Part I & Part II
- (3) Part I of the question paper will be of 40 marks in total. This part will consist of twenty compulsory short questions, with 2 marks each. The word limit for these questions shall be upto 50 words. These questions will cover the entire units and there will be no unit wise division of the questions asked in this part.
- (4) Part II of the question paper will be of 60 marks and students will be required to write detailed answer in the answer sheet only. If syllabus (course contents) of a paper is divided into two units i.e. Unit A and Unit B, then in this part of the question paper six questions will be asked in total: three questions from each unit. Student will be asked to attempt three questions in total and at least one question from each unit. Each question will be of 20 marks. If syllabus (course contents) of a paper is divided into three Units i.e. Unit A, B & C then in the Part II of the question paper, which consist of Essay type questions, six questions will be asked in total: two questions from each Unit. Students will be required to attempt three questions in total and one question from each Unit. The ideal word limit for these questions is 500-600 words.

Paper I: Indian Philosophy

Unit A:

1. Nature of Indian Philosophy: plurality as well as common concerns.
2. Basic concepts of the Vedic and the Upanisadic world-views, Rta (the cosmic order): the divine and the human realms, the centrality of the institution of Yajna (sacrifice), Rna (duty/obligation).
3. Carvaka school: its epistemology, metaphysics and ethics.
4. Jainism: concepts of sat, dravya, guna, paryaya, jiva, ajiva, anekantavada, syadvada and nayavada, pramanas, ahimsa, bondage and liberation.
5. Buddhism: theory of pramanas, theory of dependent origination, the four noble truths, doctrine of momentariness, theory of no-soul. The interpretation of these theories in schools of buddhism: Vaibhasika, Sautrantika, Yogacara, Madhyamika.

Unit B:

1. Nyaya: theory of pramanas, the individual self and its liberation, the idea of God and proofs for his existence.
2. Vaisesika: Padarthas: dravya, guna, karma, samanya, samavaya, visesha, abhava, Causation: asatkaryavada, karana: samavayi, asamavayi & nimitta, paramanuvada, adrsta, nihsreyas.
3. Samkhya: causation, satkaryavada, prakrti, its constituents, evolutes and arguments for its existence, purusa, arguments for its existence and plurality of purusas, relationship between prakrti and purusa, kaivalya, atheism.
4. Yoga: citta and citta-vrtti, eightfold path. God.

Unit C:

1. Purva Mimamsa: Pramana-mimamsa, Self.
2. Advaita: nirguna brahman, adhyasa, rejection of difference, vivartavada, maya, three grades of satta, pramanas, jiva, jivanmukti.
3. Visistadvaita: saguna brahman, refutation of maya, parinamavada, aprthaksiddhi, jiva, bhakti and prapatti, rejection of jivanmukti.

Suggested Readings:

- M. Hiriyanna : *Outlines of Indian Philosophy* (Hindi translation available)
- C.D. Sharma : *A Critical Survey of Indian Philosophy* (Hindi translation available)
- S.N. Dasgupta : *A History of Indian Philosophy, Vols. I to V* (Hindi translation available, Hindi Granth Academy, Jaipur)
- S. Radhakrishnan : *Indian Philosophy, Vols. I & II*, (Hindi translation available, Rajkamal, Delhi).
- R.D. Ranade : *A Constructive Survey of Upanisadic Philosophy* (Hindi translation available, Hindi Granth Academy, Jaipur)
- Dutta & Chatterjee : *Introduction to Indian Philosophy* (Hindi translation available)
- R. Puligandla : *Fundamentals of Indian Philosophy*
- संगम लाल पाण्डे : *भारतीय दर्शन का सर्वेक्षण*, सेन्ट्रल पब्लिशिंग हाऊस, इलाहाबाद।

Paper II: History of Western Philosophy

Unit A:

1. Introduction: Early Greek philosophy: Sophists & Socrates.
2. Plato: Theory of knowledge: knowledge (episteme) and opinion (doxa), theory of forms, soul, idea of the Good
3. Aristotle: Critique of Plato's theory of forms, theory of causation, form and matter, potentiality and actuality, soul, God

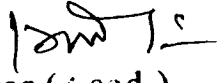

Unit B:

1. St. Thomas Aquinas: Faith and reason, essence and existence, proofs for the existence of God.
2. Descartes: Method and the need for method in philosophy, method of doubt, cogito ergo sum, types of ideas, mind and matter, mind-body interactionism, God: nature and proofs for his existence.
3. Spinoza: substance, attributes and modes, the concept of God or Nature, pantheism, mind-body problem.
4. Leibniz: Monadology, doctrine of pre-established harmony; truths of reason and truths of fact, innateness of all ideas, principles of non-contradiction, sufficient reason and identity of the indiscernible, God: nature and proofs for his existence

1. Locke: Theory of knowledge-ideas and their classification, refutation of innate ideas, knowledge and its grades, substance, qualities: primary and secondary
2. Berkeley: Rejection of abstract ideas, rejection of the distinction between primary and secondary qualities, immaterialism, esse est percipi: the problem of solipsism.
3. Hume: Theory of knowledge- impressions and ideas; judgments concerning relations of ideas and judgments concerning matters of fact; causality; external world, self and personal identity; rejection of metaphysics; skepticism.
4. Kant: conception of critical philosophy; classification of judgments: analytic, synthetic, a priori, a posterior, possibility of synthetic apriori judgments.

Suggested Readings:

- W.T. Stace : *A Critical History of Greek Philosophy*
- J.S. Srivastava : 1. ग्रीक दर्शन का वैज्ञानिक इतिहास, किताब महल, इलाहाबाद
2. मध्ययुगीन दर्शन का वैज्ञानिक इतिहास, किताब महल, इलाहाबाद
3. आधुनिक दर्शन का वैज्ञानिक इतिहास, किताब महल, इलाहाबाद
- याकूब मसीह : पाश्चात्य दर्शन का समीक्षात्मक अध्ययन, मोतीलाल बनारसीदास, दिल्ली
(English Translation Available)
- F. Thilly : *History of Western Philosophy*


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8.

HISTORY

The scheme of examination will be as follows:

Scheme:

Maximum Marks 200

Minimum Pass Marks 72

Paper I

3 hrs. Duration

Marks 100

Paper II

3 hrs. Duration

Marks 100

Note: There shall be two papers in all in the subject of History, and each paper shall be of three hours duration and of 100 marks.

Each paper shall consist of two parts. Part I shall carry 40 marks and shall consist of two compulsory questions. The first compulsory question will be of 20 marks, comprising of 10 very short answer type questions of two marks each. The answer to each question should not exceed 20 words.

The second compulsory question will be of 20 marks. It will comprise of 10 short answer type questions of 04 marks each, the candidate will be required to answer any 05 questions. The answer to each question should not exceed 50 words.

The second part of the question paper shall be divided into three sections comprising of 06 essay type questions, containing 02 questions from each section, of 20 marks each. Candidate will be required to answer 03 questions, selecting one question from each section. This part of the question paper shall be of 60 marks.

परीक्षा योजना :

अधिकतम अंक 200

न्यूनतम उत्तीर्णांक 72

प्रथम प्रश्नपत्र

समय 3 घंटे

अंक 100

द्वितीय प्रश्नपत्र

समय 3 घंटे

अंक 100

नोट : इतिहास विषय के कुल दो प्रश्नपत्र होंगे, प्रत्येक प्रश्नपत्र तीन घंटे की अवधि का एवं 100 अंकों का होगा।

प्रत्येक प्रश्नपत्र के दो भाग होंगे। प्रथम भाग 40 अंको का होगा एवं इस भाग में दो अनिवार्य प्रश्न होंगे। 20 अंकों के प्रथम अनिवार्य प्रश्न में, दो-दो अंक के 10 अनिवार्य अतिलघुउत्तरात्मक प्रश्न होंगे। प्रत्येक उत्तर की शब्द सीमा 20 शब्द।

20 अंकों के द्वितीय अनिवार्य प्रश्न में, चार-चार अंकों के 10 लघुउत्तरात्मक प्रश्न होंगे जिनमें से 05 प्रश्न करने होंगे। प्रत्येक उत्तर की शब्द सीमा 50 शब्द।

प्रश्नपत्र के द्वितीय भाग में, पाठ्यक्रम के तीन खण्डों में से, प्रत्येक खण्ड से दो-दो प्रश्नों का चयन करते हुए, कुल 06 निबन्धात्मक प्रश्न होंगे। प्रत्येक प्रश्न 20 अंको का होगा। परीक्षार्थियों को प्रत्येक खण्ड में से कम से कम एक प्रश्न का चयन करते हुए कुल 03 प्रश्न हल करने होंगे। प्रश्नपत्र का यह भाग 60 अंको का होगा।

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PAPER I : HISTORY OF INDIA (FROM THE BEGINNING UPTO 1200 A. D.)

Section - A

Main sources of the history of India upto 1200 A.D. A brief survey of Prehistoric cultures in India. The Indus-Saraswati civilization – origin, extent, salient features, decline and continuity. The Vedic age – Vedic literature, polity, society, economy and religion. A brief survey of Iron age cultures in India. Rise of Janapadas and Mahajanapadas – monarchies and republics. Rise of Magadhan imperialism upto the Nandas. Jainism and Buddhism – origins, teachings, contribution.

Section - B

The Mauryan empire – main sources. Chandragupta Maurya and Aśoka. Aśoka's Dhamma – its nature and propagation. Mauryan state and administration, society and economy, art and architecture. Decline of the Mauryas. The post-Mauryan period (c. 200 B.C. to 300 A.D.) – achievements of the Sungas, Satavahanas, Sakas and Kushanas. Social, Religious and Economic life and development of literature and arts during the post-Mauryan period. The Sangam age – literature, society, economy, and culture.

Section - C

The Gupta empire – achievements of Samudragupta, Chandragupta II Vikramaditya, Skandagupta. State and administrative institutions. Social and Economic Life. Religious thought and institutions. Developments in literature, arts and sciences. Post-Gupta period upto 750 A.D. – achievements of the Vardhanas, Chalukyas and Pallavas. Tripartite Struggle. The Imperial Cholas and their achievements. A study of social and economic changes and a brief survey of cultural life during the period c. 750 to 1200 A. D.

प्रथम प्रश्नपत्र : भारत का इतिहास (असम्भू से 1200 ईस्वी तक)

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1200 ईस्वी तक भारत के इतिहास के मुख्य स्रोत। भारत की प्रागैतिहासिक संस्कृतियों का संक्षिप्त सर्वेक्षण। सिन्धु-सरस्वती सभ्यता - उदगम, विस्तार, प्रमुख विशेषताएँ, पतन एवं निरंतरता। वैदिक युग - वैदिक साहित्य, राजशासन, समाज, अर्थव्यवस्था एवं धर्म। भारत की लौहयुगीन संस्कृतियों का संक्षिप्त सर्वेक्षण। जनपदों एवं महाजनपदों का उदय - राजतंत्र एवं गणतंत्र। नंद वंश तक भागध साम्राज्यवाद का उत्कर्ष। जैन धर्म एवं बौद्ध धर्म - उदगम, शिक्षाएँ, योगदान।

खण्ड - ख

मौर्य साम्राज्य- मुख्य स्रोत। चन्द्रगुप्त मौर्य एवं अशोक। अशोक का धम्म - इसकी प्रकृति एवं प्रचार। मौर्यकालीन राज्य एवं प्रशासन, समाज एवं अर्थव्यवस्था, कला एवं स्थापत्य। मौर्यों का पतन। मौर्योत्तर काल (लगभग 200 ई. पू. से 300 ईस्वी) - शुंगों, सातवाहनों, शकों एवं कुषाणों की उपलब्धियाँ। मौर्योत्तर काल में सामाजिक, धार्मिक एवं आर्थिक जीवन, तथा साहित्य एवं कलाओं का विकास। संगम युग - साहित्य, समाज, अर्थव्यवस्था एवं संस्कृति।

खण्ड - ग

गुप्त साम्राज्य - समुद्रगुप्त, चन्द्रगुप्त द्वितीय विक्रमादित्य, स्कंदगुप्त की उपलब्धियाँ। राज्य एवं प्रशासनिक संस्थाएँ। सामाजिक एवं आर्थिक जीवन। धार्मिक विचार एवं संस्थाएँ। साहित्य, कला एवं विज्ञान का विकास। 750 ईस्वी तक गुप्तोत्तर काल - वर्धनों, चालुक्यों एवं पल्लवों की उपलब्धियाँ। त्रि-राज्यीय संघर्ष। साम्राज्यवादी चोल एवं उनकी उपलब्धियाँ। 750 से 1200 ईस्वी के काल में सामाजिक एवं आर्थिक परिवर्तनों का अध्ययन तथा सांस्कृतिक जीवन का संक्षिप्त सर्वेक्षण।

Books Recommended (अनुशंसित पुस्तकें) :

- H. D. Sankalia : *Prehistory of India*, Murlidhar Manoharlal, New Delhi, 1977
- Dilip K. Chakrabarti : *India : An Archaeological History (Palaeolithic Beginnings to Early Historic Foundations)*, Oxford University Press, New Delhi, 1999
- B. B. Lal : *India 1947-1997 : New Light on the Indus Civilisation*, Delhi, 1998
- R.K. Mookerji : *Chandragupta Maurya and His Times*, Delhi, 1952 (also in Hindi)
- : *Asoka*, Delhi, 1972 (also in Hindi)
- B. N. Puri : *India under the Kushanas*, Bombay, 1965

- R.C. Majumdar & A.C. Altekar : *The Vakataka-Gupta Age* (also in Hindi)
- Bar Nath Sharma : *Harsha & his times*, Varanasi, 1970
- K.A.N. Sastri : (Ed.) *Age of the Nandas & Mauryas* (also in Hindi)
- : *A History of South India* (also in Hindi)
- : *The Cholas* (also in Hindi)
- Romila Thapar : *A History of India, Vol I*, Penguin, 1966 (also in Hindi)
- : *Aśoka & the Decline of the Mauryas*, 3rd impression, Delhi, 1999
- Upinder Singh : *A History of Ancient and Early Medieval India* (From the Stone Age to the 12th Century), Pearson Longman, Delhi, 2009
- विदुला जायसवाल : *भारतीय इतिहास का नव-प्रस्तर युग*, दिल्ली, 1992
- के. के. थपल्याल एवं एस.पी. शुक्ला : *सिन्धु सभ्यता*, लखनऊ, 1976
- मदन मोहन सिंह : *बुद्धकालीन समाज और धर्म*, पटना, 1972
- पी.एल. गुप्ता : *गुप्त साम्राज्य*
- विशुद्धानन्द पाठक : *उत्तर भारत का राजनीतिक इतिहास*, लखनऊ, 1990
- बलराम श्रीवास्तव : *दक्षिण भारत का इतिहास*, वाराणसी, 1968
- के.सी. श्रीवास्तव : *प्राचीन भारत का इतिहास तथा संस्कृति*, इलाहाबाद

PAPER II: HISTORY OF RAJASTHAN (FROM EARLIEST TIMES TO 1956 A.D.)

Section - A

A survey of the sources of the history of Rajasthan. Palaeolithic and Mesolithic cultures in Rajasthan. Extent and characteristics of Chalcolithic and Copper age cultures (Ahar, Balathal, Ganeshwar). Characteristics of Kalibangan culture. Matsya Janapada and Republican Tribes in Rajasthan. Origin of Rajputs. Rise and expansion of Gūhilas, Gujara-Pratiharas and Chahamanas.

Section - B

Rajput resistance to Muslim incursions in Rajasthan. Mewar under Maharana Sambha and Sanga. Maharana Pratap's struggle for independence. Chandrasen's efforts for freedom. Contribution of Sawai Jai Singh. A brief survey of the main features of the society and culture in Rajasthan (1200-1750 A.D.). Meera and Dadu. Art and architecture - fort architecture, temples.

Section - C

Maratha incursions in Rajasthan and their impact. Acceptance of British suzerainty and its consequences. Administrative and Judicial changes after 1818 A. D. Social changes - Prohibition of Female Infanticide and Sati. Economic changes - Land Revenue Settlements. British monopoly of Salt and Opium Trade. Outbreak of 1857 in Rajasthan. Influence of Arya Samaj in Rajasthan. A brief survey of Peasant Movements and Tribal Movements. Formation of Praja Mandals and Freedom Struggle in Rajasthan. Integration of the States of Rajasthan.

द्वितीय प्रश्नपत्र : राजस्थान का इतिहास (आरंभिक काल से 1956 ईस्वी तक)

खण्ड - क

राजस्थान के इतिहास के स्रोतों का सर्वेक्षण। राजस्थान में पुरापाषाणकालीन एवं मध्यपाषाणकालीन संस्कृतियाँ। ताम्रपाषाणिक एवं ताम्रयुगीन संस्कृतियों का विस्तार एवं विशेषताएँ (आहाड, बालाथल, गणेश्वर)। कालीबंगा संस्कृति की विशेषताएँ। राजस्थान में मत्स्य जनपद एवं गणतांत्रिक जातियाँ। राजपूतों का उदय। गुहिलों, गुर्जर-प्रतिहारों एवं चाहमानों का उत्कर्ष एवं विस्तार।

खण्ड - ख

राजस्थान में मुस्लिम आक्रमणों का राजपूत प्रतिरोध। महाराणा कुंभा एवं सांगा के अधीन मेवाड़। महाराणा प्रताप का स्वतंत्रता के लिए संघर्ष। स्वातंत्र्य के लिए चंद्रसेन के प्रयास। सवाई जयसिंह का योगदान। राजस्थान में समाज एवं संस्कृति की मुख्य विशेषताओं का संक्षिप्त सर्वेक्षण (1200-1750 ईस्वी)। मीरा एवं दादू। कला एवं स्थापत्य - दुर्ग स्थापत्य, मंदिर।

खण्ड - ग

राजस्थान में मराठा आक्रमण एवं उनका प्रभाव। ब्रिटिश प्रभुत्व का स्वीकार एवं इसके परिणाम। 1818 ईस्वी के पश्चात् प्रशासनिक एवं न्यायिक परिवर्तन। सामाजिक परिवर्तन - कन्या-शिशु वध एवं सती पर प्रतिबन्ध। आर्थिक परिवर्तन - भू राजस्व बंदोबस्त। नमक एवं अफीम व्यापार पर ब्रिटिश एकाधिकार। राजस्थान में 1857 का विप्लव। राजस्थान में आर्य समाज का प्रभाव। कृषक आन्दोलनों एवं जनजातीय आंदोलनों का एक संक्षिप्त सर्वेक्षण। राजस्थान में प्रजामंडलों का गठन एवं स्वाधीनता संघर्ष। राजस्थान के राज्यों का एकीकरण।

Books Recommended (अनुशसित पुस्तकें)

- Dasharath Sharma : *Rajasthan through the Ages, Vol. I, Bikaner, 1966*
: *Early Chauhan Dynasties, Delhi, 1975*
- G. N. Sharma : *Rajasthan through the Ages, Vol. II*
: *Mewar and the Mughal Emperors*
: *Social Life in Medieval Rajasthan*
- M. S. Jain : *Rajasthan through the Ages, Vol. III*
: *Surplus to Subsistence, Delhi, 1994*
: *Concise History of Modern Rajasthan*
- D.C. Shukla : *Early History of Rajasthan, Delhi, 1978*
- B. N. Puri : *The History of the Gurjara-Pratiharas, Delhi, 1975*
- Shanta Rani Sharma: *Society and Culture in Rajasthan c. A.D. 700-900, Delhi, 1996*
- V.S. Bhatnagar : *Life & Times of Sawai Jai Singh (also in Hindi)*
- V. N. Misra : *Rajasthan : Prehistoric and Early Historic Foundations, Aryan Books International, New Delhi, 2007*
- H. D. Sankalia et al : *Excavations at Ahar (Tambavati), 1961-62, Deccan College, Poona, 1969*
- Rima Hooja : *A History of Rajasthan, Rupa & Co., New Delhi, 2006*
: *The Ahar Culture and Beyond, Oxford, 1988.*
- गोपीनाथ शर्मा : *राजस्थान का इतिहास, आगरा*
: *राजस्थान का सांस्कृतिक इतिहास, राजस्थान हिन्दी ग्रन्थ अकादमी, जयपुर*
: *राजस्थान के इतिहास के स्रोत, राजस्थान हिन्दी ग्रन्थ अकादमी, जयपुर*
- विशुद्धानन्द पाठक : *उत्तर भारत का राजनीतिक इतिहास, लखनऊ*
- एम.एस. जैन : *आधुनिक राजस्थान का इतिहास, जयपुर*
- रामप्रसाद व्यास : *आधुनिक राजस्थान का वृहत् इतिहास, खण्ड I एवं खण्ड II, राजस्थान हिन्दी ग्रन्थ अकादमी, जयपुर*

9. Political Science

B.A Part I

नोट: राजनीति विज्ञान के दो प्रश्न-पत्र होंगे। प्रत्येक प्रश्न-पत्र 3 घण्टों में विभाजित होगा।

प्रश्न-पत्र के दो भाग होंगे। प्रथम भाग 40 अंको का होगा। इस भाग में 20 अनिवार्य प्रश्न होंगे। प्रत्येक प्रश्न दो अंको का होगा। प्रत्येक प्रश्न का उत्तर परीक्षार्थी को अधिकतम 20 शब्दों में देना होगा। निर्धारित शब्द सीमा से अधिक शब्दों में उत्तर देने पर अंक काटे जा सकेंगे। प्रश्न-पत्र के लिए निर्धारित 3 घण्टों की अवधि में से अधिकतम 1 घण्टे की अवधि प्रश्न-पत्र के इस भाग के लिए निर्धारित होगी। प्रश्न-पत्र के इस भाग में पूरे पाठ्यक्रम के प्रश्न होंगे।

प्रश्न-पत्र के द्वितीय भाग में पाठ्यक्रम के तीनो खण्डों में से प्रत्येक में से दो-दो निबंधात्मक प्रकृति के प्रश्न होंगे। परीक्षार्थी को प्रत्येक खण्ड में से कम से कम एक प्रश्न का चयन करते हुए कुल 3 प्रश्न हल करने होंगे। प्रत्येक प्रश्न 20 अंको का होगा। प्रश्न-पत्र का यह भाग 60 अंको का होगा।

Note: The question Paper shall be of 3 hours duration. The question paper shall contain two parts:

Part A shall be of 40 marks and shall be compulsory containing 20 questions of limited words (maximum 20 words) answer and of two marks each. This Part of the Question Paper shall be of one hour duration. The question in this part can be asked from the entire course.

Part B of the Question paper shall have 2 question of descriptive type from each of the 3 section, and shall carry 60 marks. The Candidates shall be required to attempt one question of 20 marks from each section.

प्रथम प्रश्न- पत्र राजनीति विज्ञान के मूल आधार

खण्ड 'क'

राजनीति विज्ञान: परम्परागत और आधुनिक दृष्टिकोण, व्यवहारवाद व उत्तर व्यवहारवाद, अन्तः अनुशासनात्मक दृष्टिकोण, राजनीति विज्ञान का अन्य समाज विज्ञानों से संबंध, अवधारणाएँ: शक्ति, सत्ता व वैधता।

खण्ड 'ख'

राजनीतिक व्यवस्था, राजनीतिक आधुनिकीकरण, राजनीतिक विकास, लोकतंत्र, निरंकुशतंत्र, राजनैतिक दल व दबाव समूह, प्रतिनिधित्व के सिद्धांत, विधि का शासन व संविधानवाद, शासन के अंग व उसके कार्य (आधुनिक दृष्टिकोण के विशिष्ट संदर्भ में)।

खण्ड 'ग'

राजनीतिक विचारधाराएँ: उदारवाद, प्रत्ययवाद, मार्क्सवाद, लोकतांत्रिक समाजवाद, अराजकतावाद व नारीवाद।

Paper-I : Foundations of Political Science

Section-'A'

Traditional and Contemporary Perspective of Political Science, Behaviouralism and Post-Behaviouralism, Inter-disciplinary Approach, Relation of Political Science with other Social Science, Concept: Power, Authority, Legitimacy.

Section-'B'

Political System, Political Development, Political Modernization, Democracy and Dictatorships, Political Parties, Pressure Groups, Theories of Representations, Rule of Law and Constitutionalism, organs of Government and their Functions (with reference to recent trends.)

Section-'C'

Political Ideologies: Liberalism, Idealism, Marxism, Democratic Socialism, Anarchism and Feminism.

Books recommended:-

Asirvatham : Political theory (Hindi and English editions)

Mac Iver: The Modern State

Appadorai: Substance of Politics (Hindi and English editions)

S.B Dubey: Rajnitik Shastra Ke Sidhant

V.k. Arora: Rajniti Vigyan (Gadodia Pustak Bhandar, Bikaner)

J.C Johri: Principles of Political science

Chandradev Prasad: Political ideas

एस.एन. दुबे : डवलपमेंट एण्ड पॉलिटिकल थाट इन इण्डिया

इकबाल नारायण : राजनीति शास्त्र के सिद्धांत

पुखराज जैन : राजनीति शास्त्र के मूल आधार

पी.के.चड्ढा : राजनीति शास्त्र के मूल आधार

आर.सी.अग्रवाल : राजनीति शास्त्र के सिद्धांत

डॉ. बी.एम.जैन एवं चन्द्रा हीरावत : राजनीति शास्त्र के आधार

अरूण कुमार त्यागी : राजनीति विज्ञान के मूल आधार

ओ.पी.गाबा : राजनीति विज्ञान के मूल आधार तत्व

रुद्र जैन : राजनीति विज्ञान के सिद्धांत

द्वितीय प्रश्न -पत्र: प्रतिनिधि भारतीय राजनीतिक विचारक

खण्ड 'क'

मनु, कौटिल्य व शुक्र।

खण्ड 'ख'

राजा राममोहन राय, स्वामी दयानन्द सरस्वती, गोपाल कृष्ण गोखले व बाल गंगाधर तिलक, स्वामी विवेकानन्द।

मोहनदास कर्मचंद गांधी, जवाहर लाल नेहरू, बी.आर. अम्बेडकर, एम.एन. राय, जयप्रकाश नारायण व दीनदयाल उपाध्याय।

Paper- II : Representative Indian Political Thinkers

Section- A

Manu, Kautilya, Shukra.

Section- B

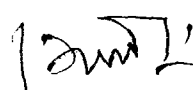
Raja Rammohan Roy, Swami Dayananda Saraswati, Gopal Krishan Gokhale, Bal Gangadhar Tilak, Swami Vivekanand.

Section- C

Mohandas Karamchand Gandhi, Jawahar Lal Nehru, Bhim Rao Ambedkar, M.N.Roy, Jai Prakash Narain and Deen Dayal Upadhyay.

Books recommended: -

- Awasthi and Awasthi : Pratinidhi Bhartiya Rajnitik Chintan
V.P Verma : Aadhunik Bhartiya Rajnitik Avam Samajik Chintan
Purshotam Nagar : Aadhunik Bhartiya Chintan.
Vishnoo Bhagavan : Pramukh Bhartiya Rajnitik Vicharak (Adarch Prakashan, Chaura Rasata, Jaipur)
N.P. Verma : Indian Political Thought Vol. I&II
J.P. Sood : Main Currents of Indian Political Thought.
परमात्मा शरण : प्राचीन भारत में राजनीतिक चिन्तन व संस्थाएँ
जे.पी. सूद: मेन करन्ट्स ऑफ इण्डियन पॉलिटिकल थॉट (हिन्दी व अंग्रेजी)
एस.एल.वर्मा व बी.एम. शर्मा : प्रमुख भारतीय राजनीतिक विचारक
वी.पी वर्मा : भारतीय राजनीतिक व सामाजिक चिन्तन।
ओ.पी.गाबा : प्रमुख भारतीय राजनीतिक विचारक
अवस्थी एवं अवस्थी : भारतीय राजनीतिक चिन्तन
बी.एम.शर्मा : प्रमुख भारतीय राजनीतिक विचारक
मधुकर श्याम चतुर्वेदी : प्रमुख भारतीय राजनीतिक विचार


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10. INDIAN MUSIC

Scheme :

Number of Student -

➤ Max.- 15

➤ Min. - 04

Paper I	3 hrs. duration	Max.Marks 40	Min. Marks 15
Paper II	3 hrs. duration	Max.Marks 40	Min. Marks 15
Practical		Max. Marks 120	Min. Marks 43

Teaching Hours

Practical

6 Hours Per Week

Theory

Paper -I 2 Hours Per Week

Paper -II 2 Hours Per Week

Total Teaching Hours for practical – 06, Theory 04 Hours Per Week

Note : Each theory paper will contain nine questions having three question in each section. Candidates are required to attempt five questions in all selecting atleast one question from each section.

❖ Candidates must pass separately in each of the paper Theory and Practical wherever prescribed.

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Paper I

Principles of Indian Music

Section –A

Paper : I 3 hrs. duration Max.Marks 40 Min. Marks 15

1. Definition and explanations of the Following: Naad, Shruti, Swar Saptak, That, Raga, Mukhra, Sthai, Antara, Vadi, Samvadi, Anuvadi, Vivadi, Taal, Laya, Matra, Sam, Khali, Avartan, Theka, Alap, Taan, Bol-alap, Bol-taan, Sargam. (Tihai, Maseetkhani Gat and Rajakhani Gat)
2. Critical study of all the Ragas, Identification and development of Raga through Alaps : Yaman, Bageshwari, Alhaiya Bilawal, Bhupali, Hindol, Hameer and Desh.

Section –B

3. Important and Basic rules regarding Hindustani Music.
4. Writing of the prescribed Talas, with Dugun, Dhamar, Kharva, Trital, Jhaptal, Ektal, Chautal, Dadra.

Section –C

5. Classification of Indian instrument.
6. Notation writing of Composition Gats in the prescribed Ragas.

Paper II

History of Indian Music

Paper II 3 hrs. duration Max.Marks 40 Min. Marks 15

Note : The paper will contain five questions, having three questions in each section. Candidates are required to attempt five questions in all selecting atleast one question from each section.

Section – A

1. Definition of Rag Lakshanas, Nayak, Gayak Kalawant and Gandharava, Adat, Jigar Hisab, Varieties of Gamak Tanas.
2. Detailed study of the Notation system of Pt. Vishnu Digamber and Bhatkhande.

Section – B

3. Contribution of the following:
Jaideo, Swami Haridas, Amir Khusro, Tansen.
4. General study : Development of Music from 13th to 18th century with special reference to : (a) Religion Music, (b) Musical Compositions, (c) Musical Instruments.

Section – C

5. Use and description of the following instruments: Tabla, Sitar and Tanpura.
6. Elementary knowledge of the following dances : Kathak, Bharat Natyam, Kathakali and Manipuri.

There shall be one practical paper. (conducted by two different External Examiners)

Duration of Exam. : I hour per candidates.

Presentation of Ragas & Viva-voce

Max. Marks 120

(Pertaining to general questions on Raga, Laya and Tal and to sing or play all the Ragas according to syllabus).

Detailed Course:

Vical Music

1. To sing given musical piece and to recognize the ragas & swaras when sing.
2. To show the difference of ragas by means of characteristics swarvistaras and to sing swar-vistaras in all the ragas.
3. To know orally the "bol" with Dugun and mark time on hand and to recognize the following talas when played on table-Dhamar, Tilwara, Tital, Jhaptal, Ektal, Chautal, Kharva and Dadra.
4. To sing Arohi, Avrohi, Pakad and Swar Vistar of the following ragas- Yaman, Bageshree, Alhaiya, Bhupali, Bhimplasi, Bilawal, Hindole, Hameer, and Des.
5. With the accompaniment of table to sing slow khayal and fast khayal with sufficient alaps and tanas of different varieties in the following four ragas- (i) Yaman (ii) Bageshree (iii) Bhimplasi.
6. To sing a Fast Khayal or Tarana with sufficient Tanas in any three ragas of the following –(i) Alahaiya-bilawal (ii) Hindole (iii) Hameer (iv) Bhupali (v) Des.
7. With the accompaniment of table or pakhawaj to sing one drupad with Dugun and one Dhamar with Dugun in any two ragas prescribed, under clause 4 but not selected under clause 5&6.
8. To sing light classical /Bhajan composition in the ragas mentioned in clause 4
9. One Lakshan Geet/Sargam

Instrumental Music

Candidate can offer any one of the following instruments- Sitar, Violin, Sarod, Flute, Israj or Dilruba.

Clause 1,2,3, and 4 same as Vocal Music singing may be replaced by playing.

5. To play a vilambit Gat (विलम्बितगत) and Fastgat (द्रुतगत) with sufficient varieties of Todas and Jhalas in the following Three ragas.
(i) Yaman (ii) Bageshree (iii) Bhimplasi.
6. With the accompaniment of table to play a Fastgat (द्रुतगत) with Todas and Jhalas in any Three ragas of the following
(i) Alahaiya-bilawal (ii) Hindole (iii) Hameer (iv) Bhupali (v) Des.
7. With to play a composition composed in other than trital in any of the ragas mentioned in clause 4 but not selected under clause 5 & 6
8. To play a dhun in any Raga.

Books Recommended :

1. A Short Historical Survey of the Music of Northern India by Pt. V.N. Bhatkhande.
2. संगीत के जीवन पृष्ठ - एस.एन.राय।
3. Vadya shastra - Shri Harish Chandra Srivastava,
4. Hamare Sangeet Ratna Sangeet Karyalaya, Hathras.
5. Sangeet Visharad by Basant.
6. Comparative Study of the Music of the 15th 16th and 17th Centuries, By Pt. V.N. Bhatkhande (Sangeet Karyalaya, Hathras.)
7. Sangeet Kaumudi-Vikramaditya Singh, V. Nigam.
8. Tan Malika, Pt. III (Uttararadha) by Raja Bhaya Poonchwale.
9. Hindustani Music : Its Physics and Aesthetics by G.S. Ranade, Sangeet Karyalaya, Hathras.
10. Music of Hindustan - Fox Staug Ways.
11. Origin of Ragas- Bandopadhyaya.
12. The Music of India by H.A. Popley.
13. Hindustani Sangeet Paddyati (Shastra) by Pt. Bhatkhande

II.

Public Administration

Scheme :	Max. Marks	Mini ^{Pass} Marks	Time
<u>Two Papers</u>	200	72	
Paper-I	100	36	3 Hours
Paper-II	100	36	3 Hours

Note : Each paper shall consist of two parts.

Part-I would contain 10 compulsory short answer questions of 4 marks each to be answered in 50 words. Total Marks : 40

Part-II divided into three sections - each section contains 2 descriptive type question of 20 marks each. The candidates are required to attempt three questions selecting one question from each section.

Total Marks : 60

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Paper - I : Elements of Public Administration

Section A

Meaning, Nature of Scope of Public Administration, Importance of Public Administration in Modern Society, Public and Private Administration. Evolution of the study of public Administration. Public Administration as a Social Science, Relationship with other Social Sciences - Political Science, Economics, Sociology, Law and Psychology, Approaches to the Study of Public Administration - Classical and Humanistic.

Section B

Organization - Meaning, Formal and Informal Organization, Principles of Organization Hierarchy, Unity of Command, Span of Control, Coordination, Centralization, Decentralization, Authority and Responsibility.


Chief Executive, Line and Staff Agencies, Supervision, Delegation, Leadership, Communication, Decision-making, Public Relations.

Section C

Budget, Meaning and forms, Principles of Budgeting, Budget as a tool of socio-economic Policy, Personnel Administration : Meaning, Nature and Importance, Nature of Bureaucracy, Civil Service and its Role in a developing Society, Classification, Recruitment, Training, Promotion of Civil Servants, Morale and Motivation in Public Administration.

Books Recommended :

1. A. Awasthi, S.R. Maheshwari, Public Administration.
2. C.P. Bhambhari : Public Administration.
3. D.R. Sachdeva and Meena Sogani : Public Administration : Concepts and Application.
4. Mohit Bhattacharya : Public Administration.
5. Rumki Basu : Public Administration.
6. M.P. Sharma and B.L. Sadna, Public Administration in Theory and Practice.
7. S.L. Goel, Public Administration - Theory & Practice.
8. Hoshiar Singh and Pradeep Sachdeva, Administrative Theory.
9. Ravindra Sharma, Lok Prashashan Ke Tatav.
10. Surendra Katariya, Lok Prashashan Ke Tatav.


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Paper - II : Public Administration in India

Section - A

Historical Background of Indian Administration with special reference in influence of British period, salient features of Indian Administration. The Union Executive : President, Prime Minister and council of Ministers. The organization and working of the Central Secretariat and Cabinet Secretariat.

Section - B

Organisation of Working of Ministry of Home and Ministry of Personnel, Pensions & Public Grievances, Major Forms of Public Enterprises - Departments, Corporations and Companies, Committee on Public Undertakings, Financial Administration : Budget Formulation, Budget Enactment and Budget Execution, Comptroller and Auditor General of India, Public Accounts Committee, Estimates Committee.

Section - C

Personnel Administration : Classification of Indian Civil Services, Recruitment and Training of All India Services. Control over Administration : Legislative, Executive and Judicial; Administrative corruption, Redressal of Public Grievances, Administrative Reforms, Comparative study of Administrative Reforms, Commission I and Administrative Reforms, Commission II with reference of Personnel Administration and Corruption.

Books Recommended :

1. S.R. Maheshwari : Indian Administration.
2. P. Sharan; Public Administration in India.
3. Ramesh Arora & Rajni Goyal : Indian Public Administration.
4. Avasthi & Avasthi : Indian Administration.
5. Hoshiar Singh & Mohinder Singh : Public Administration in India : Theory and Practice.
6. बी.एल. फडिया : भारत में लोक प्रशासन
7. पी.डी. शर्मा एवं बी.एम. शर्मा : भारतीय प्रशासन
8. रविन्द्र शर्मा : भारत में लोक प्रशासन
9. सुरेन्द्र कटारिया : भारत में लोक प्रशासन
10. एस.आर. माहेश्वरी : भारतीय प्रशासन


प्रश्न पत्र - I : लोक प्रशासन के तत्व

प्रथम खण्ड

लोक प्रशासन का अर्थ, प्रकृति व क्षेत्र, आधुनिक समाज में लोक प्रशासन का महत्व, लोक व निजी प्रशासन, लोक प्रशासन के अध्ययन का विकास, लोक प्रशासन एक सामाजिक विज्ञान के रूप में तथा लोक प्रशासन का अन्य सामाजिक विज्ञानों - राजनीति विज्ञान, अर्थशास्त्र, समाजशास्त्र, कानून व मनोविज्ञान से सम्बन्ध, लोक प्रशासन के अध्ययन के उपागम-शास्त्रीय एवं मानवीय।

द्वितीय खण्ड

संगठन - अर्थ, औपचारिक एवं अनौपचारिक संगठन, संगठन के सिद्धान्त - पदसोपान, आदेश की एकता, नियंत्रण का क्षेत्र, समन्वय, केन्द्रीयकरण, विकेन्द्रीकरण, सत्ता एवं उत्तरदायित्व।


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मुख्य कार्यपालिका, सूत्र एवं स्टाँफ़ अभिकरण, पर्यवेक्षण, प्रत्यायोजन, नेतृत्व, संचार, निर्णय-निर्माण, लोक सम्पर्क।

तृतीय खण्ड

बजट : अर्थ एवं प्रकार, बजट के सिद्धान्त, सामाजिक-आर्थिक नीति के साधन के रूप में बजट, कार्मिक प्रशासन : अर्थ, प्रकृति एवं महत्त्व, नौकरशाही की प्रकृति, लोक सेवा और विकासशील समाज में इसकी भूमिका, वर्गीकरण : लोक सेवकों की भर्ती, प्रशिक्षण, पदोन्नति, लोक प्रशासन में मनोबल एवं अभिप्रेरणा।

अनुशंसित पुस्तकें -

1. ए. अवस्थी, एस.आर. माहेश्वरी : पब्लिक एडमिनिस्ट्रेशन
2. सी.पी. भाम्भरी : पब्लिक एडमिनिस्ट्रेशन
3. डी.आर. सचदेवा एण्ड मीना सोगानी : पब्लिक एडमिनिस्ट्रेशन : कन्सेप्टस एण्ड एप्लीकेशन्स
4. मोहित भट्टाचार्य : पब्लिक एडमिनिस्ट्रेशन
5. रूमकी बसु : पब्लिक एडमिनिस्ट्रेशन
6. एम.पी. शर्मा एण्ड बी.एल. सडाना : पब्लिक एडमिनिस्ट्रेशन इन थ्योरी एण्ड प्रैक्टिस
7. एस.एल. गोयल : पब्लिक एडमिनिस्ट्रेशन - थ्योरी एण्ड प्रैक्टिस
8. हौशियार सिंह एण्ड प्रदीप सचदेव : एडमिनिस्ट्रेटिव थ्योरी
9. रविन्द्र शर्मा : लोक प्रशासन के तत्व
10. सुरेन्द्र कटारिया : लोक प्रशासन के तत्व


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द्वितीय पत्र - भारत में लोक प्रशासन

पुष्पम खण्ड

भारतीय प्रशासन की ऐतिहासिक पृष्ठभूमि - ब्रिटिश काल के प्रभावों के विशेष सन्दर्भ में, भारतीय प्रशासन की मुख्य विशेषताएँ, संघीय कार्यपालिका : राष्ट्रपति, प्रधानमंत्री एवं मंत्रिपरिषद्, केन्द्रीय सचिवालय, मंत्रिमण्डल सचिवालय।

द्वितीय खण्ड

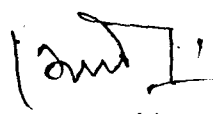
गृह मंत्रालय, कार्मिक पेंशन एवं लोक शिवायत मंत्रालय का संगठन व कार्यकरण, लोक उद्यमों के प्रमुख प्रकार : विभाग, निगम एवं कम्पनी प्रणाली, लोक उपक्रमों की संसदीय समिति, वित्तीय प्रशासन : बजट का निर्माण, बजट का संसद में अनुमोदन एवं बजट का क्रियान्वयन, नियंत्रक एवं महालेखा परीक्षक, लोक लेखा समिति, अनुमान समिति।

तृतीय खण्ड

कार्मिक प्रशासन : भारतीय लोक सेवकों का वर्गीकरण, अखिल भारतीय सेवाओं में भर्ती एवं प्रशिक्षण, प्रशासन पर नियंत्रण : विधायी, कार्यपालिका व न्यायिक नियंत्रण, प्रशासनिक भ्रष्टाचार, लोक परिवेदनाओं का निवारण, प्रशासनिक सुधार, कार्मिक प्रशासन एवं भ्रष्टाचार के विशेष संदर्भ में प्रथम प्रशासनिक सुधार आयोग एवं द्वितीय प्रशासनिक सुधार आयोग का तुलनात्मक अध्ययन।

अनुशंसित पुस्तकें :

1. एस.आर. माहेश्वरी : भारतीय प्रशासन
2. पी. शरण : पब्लिक एडमिनिस्ट्रेशन इन इण्डिया
3. रमेश अरोड़ा एण्ड रजनी गोयल : इण्डियन पब्लिक एडमिनिस्ट्रेशन
4. अवस्थी एण्ड अवस्थी : भारतीय प्रशासन
5. होशियार सिंह एवं प्रदीप सचदेवा : भारतीय प्रशासन
6. बी.एल. फडिया : भारत में लोक प्रशासन
7. पी.डी. शर्मा एण्ड बी.एम. शर्मा : भारतीय प्रशासन
8. रविन्द्र शर्मा : भारत में लोक प्रशासन
9. सुरेन्द्र कटारिया : भारत में लोक प्रशासन
10. एस.आर. माहेश्वरी : भारतीय प्रशासन


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12. DRAWING & PAINTING

SCHEME :

Theory Paper I	Duration	M.M.	Min. Pass Marks
Fundamentals of Arts	3 hrs.	90	32 ^{1/2}
Practical Paper II			
Part A- Study from object	3 hrs.	45	32 ^{1/2}
Part B-Creative Design	3 hrs.	45	
Submission of Works		20	07
Total		200	72

Paper I : Fundamental of Art

Note : The paper consist of two parts :-

Part -I: Carries 30 marks and consist of 15 short type questions of 2 marks each.

Part -II: Carries 60 marks divided into three sections 4 questions of 15 marks each with internal choice. Candidates are required to attempt four questions selecting one question from each section. Each answer should be limited in 700-800 words.

Section - A

Meaning and Definition of Art, Importance of Art, Visual and Performing Arts (Painting, Sculpture, Music, Dance and Drama), Various Art Styles - Tribal and Folk Art, Child Art, Classical and Modern Art.

Creative Process - Observation, Perception, Imagination and Creative Expression.

Section - B

Elements of Painting - Line, Form, Colour, Tone, Texture, Space.

Principles of Composition - Unity, Harmony, Balance, Rhythm, Dominance, Proportion.

Perspective, Drawing and Rendering.

Section - C

Art Techniques and Materials - Fresco - Bono and Secco, Wash and Wash, Graphic Art - Lino, Wood Cut, Etching, Colograph, Lithograph etc., Colour Media and Technique - Oil, Water, Acrylic, Tempera, Pastel.

Books Recommended :

1. Survey of Indian Sculpture - S.K. Saraswati.
2. Bhartiya Murtikala - Rai Krishna Das. Nagri Pracharini Sabha, Varanasi (Kashi) AD 2030
3. Bhartiya Murtikala - Rama Nath Mishra.
4. Kala Ke Pran Buddha - Jagdeesh Gupta.
5. Studies in Indian Art - V.S. Agarwal.
6. Saga of Indian Sculpture - K.M. Munshi
7. Roop Prad Kala Ke Mooladhar - Shri Kumar Sharma, R.A. Agrawal. International publishing house, Meerut, 2004.
8. Fundamentals of Design - Donald M. Enderson.
9. Visual Dialogue - Nathan Knobler, New York, 1971
10. कला के नवीन स्वरूप - नरेन्द्र सिंह यादव, अजय यादव, राजस्थान हिन्दी ग्रन्थ अकादमी, जयपुर, 2015।


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**Paper – II Practical
Part-A**

Medium water colour **Study from Objects**
size ¼ Imp. 3 hrs. duration

A group of objects (not more than four) should be arranged against drapery background with a flat foreground. The objects should include common articles of daily use with fruits and vegetable etc.

**Part-B
Creative design**

Medium any medium size ¼ Imp. 3 hrs. duration

Two dimensional design should be made giving stress on stylisation, colour-scheme and texture etc.

Practical paper shall have two sessions of three hours each excluding break of one hour.

Submission of practical work Max. Marks 20 Min. Pass Marks 7

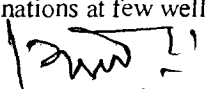

- (a) 3 plates of pencil shading and 5 plates of study from objects with water colour.
- (b) 8 plates of creative design.
- (c) A sketch book of not less than 50 sketches.

Note : Submission of work will be submitted to the Head of the Department of Drawing and Painting of the College fifteen days before the commencement of examination. The marks in the submission will be awarded by the subject teacher (internal). However, the external examiner shall be empowered to review the work of the submission in case there is a drastic difference between the marks of the examination and submission.

Submission work will be retained till the declaration of the result and returned to the Candidate by the Department thereafter. If no claim is made within two months of the declaration of the result, the submission will be destroyed.

Note:

- (a) Candidate should pass in theory as well as in practical paper separately.
- (b) There should be minimum 10 hours for the regular study including two hours for sketching.
- (c) Minimum three demonstrations should be arranged by the subject expert during the session for each practical paper.
- (d) The Department should also arrange for an Educational tour to Ancient Art centres like Ajanta, Ellora, Elephanta, Khujraho, Mahabalipuram etc. once a year.
- (e) Practical examination will be conducted at the centres and the practical work will be examined like the practical paper of Music or Home Science which means that an external examiner will examine the answer books in consultation with and internal examiner who is the subject teacher of the Department of Drawing and Painting. University may centralize the practical examinations at few well equipped Departments to hold examination economically.


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13 SOCIOLOGY

Scheme:

<i>Min. Pass Marks</i> 72		<i>Max. Marks</i>	200
<i>Paper-I</i>	<i>3 hrs. duration</i>	<i>Marks</i>	100
<i>Paper-II</i>	<i>3 hrs. duration</i>	<i>Marks</i>	100

नोट:- समाजशास्त्र के दो प्रश्न-पत्र होंगे। प्रत्येक प्रश्न-पत्र 3 घण्टों में विभाजित होगा। प्रत्येक प्रश्न-पत्र के दो भाग होंगे। प्रथम भाग 40 अंकों का होगा। इस भाग में दो अनिवार्य प्रश्न होंगे। 20 अंको के एक प्रश्न में, एक-एक अंक के 20 लघु प्रश्न होंगे तथा प्रत्येक प्रश्न का उत्तर परीक्षार्थी को अधिकतम 20 शब्दों में देना होगा। दूसरे अनिवार्य प्रश्न के अंतर्गत दो-दो अंको के 10 प्रश्न होंगे। प्रत्येक प्रश्न का उत्तर परीक्षार्थी को अधिकतम 40 शब्दों में देना होगा। निर्धारित शब्द सीमा से अधिक शब्दों में उत्तर देने पर अंक काटे जा सकेंगे। प्रश्न-पत्र के लिए निर्धारित कुल 3 घण्टों की अवधि में से अधिकतम 1 घंटे की अवधि प्रश्न-पत्र के इस भाग के लिए निर्धारित होगी।

प्रश्न-पत्र के इस प्रथम भाग के दोनों प्रश्न, 3 खण्डों में विभाजित पाठ्यक्रम के तीनों खण्डों से संबंधित होंगे। अर्थात् प्रश्न-पत्र के इस भाग में पूरे पाठ्यक्रम से संबंधित प्रश्न होंगे।

प्रश्न-पत्र के द्वितीय भाग में, पाठ्यक्रम के तीनों खण्डों में से प्रत्येक में से दो-दो निबन्धात्मक प्रकृति के प्रश्न होंगे। परीक्षार्थियों को प्रत्येक खण्ड में से कम से कम एक प्रश्न का चयन करते हुए, कुल 3 प्रश्न हल करने होंगे। प्रत्येक प्रश्न 20 अंकों का होगा। प्रश्न-पत्र का यह भाग 60 अंकों का होगा।

Note: There shall be two papers in all, and each paper shall be of three hours duration and of 100 marks. Each paper shall consist of two parts Part I shall carry 40 marks. There shall be 2 questions in Part-I, first question will consist of 20 short questions of 1 mark each, carrying a word limit of 20 words. The second question will consist of 10 questions of 2 marks each, carrying a word limit of 40 words. Marks may be deducted if the word limit is exceeded. This part of the question paper will be given maximum one hour duration and shall relate to all the three sections covering thereby the entire course.

Part-II, of the question paper shall be divided into three sections comprising 6 essay type questions of 20 marks each. Candidates will be required to attempt 3 questions selecting one question from each section. This part of the question paper shall be of 60 marks.


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Maximum Marks: 100

Paper I: Introduction to Sociology

Unit I: Understanding Sociology

Origin of Sociology: Meaning, Nature, Subject Matter and Scope of Sociology.
Sociology and other Social Sciences, Scientific and Humanistic Perspectives.

Unit II: Basic Concepts in Sociology.

Society, Community, Social Group, Institution, Social Structure, Social System,
Status and Role, Social Action, Culture, Norms and Values, Associative and
Dissociative Social Processes.

Unit III: Dynamics in Sociology

Social Stratification: Concept, Forms and Theories (Functional and Marxist),
Social Mobility: Concept and Forms, Social Control: Concept and Forms,
Social Change: Concept, Forms (Linear and Cyclical), Socialization: Concept,
Stages and Theories (Sigmund Freud, G.H. Mead and C.H. Cooley)

Essential Readings: (in English):

Beteille Andre, 2002: Sociology: Essay on Approach and Method, New Delhi:
OUP.

Bottomore, T.B. 1972: Sociology: A Guide to Problems and Literature,
Bombay: George Allen and Unwin (India). (Hindi Edition also)

Devis, Kingsley, 1981: Human Society, Delhi: Surjeet Publications.

Giddens Anthony, 2005: Sociology, London, Polity Press

Harlambos, M. 1998: Sociology: Themes and Perspectives. New Delhi: Oxford

Inkeles, Alex. 1987: What is Sociology? New Delhi: Prentice-Hall of India Pvt.
Ltd.

Jayaram, N. 1988: Introductory Sociology, Madras: Macmillan India.

Johnson, Harry M. 1995: Sociology: A Systematic Introduction. New Delhi:
Allied Publishers.

Rawat, H.K. 2007: Sociology: Basic Concepts, Rawat Publications, Jaipur.



Rawat, H.K. 2013: Contemporary Sociology, Rawat Publications, Jaipur.

Schaefer, Richard T. and Robert P. Lamm. 1999: Sociology, New Delhi: Tata-
McGraw Hill

Singh J.P. 2008: Sociology: Concepts and Theories, Prentice-Hall of India Pvt. Ltd.

Essential Readings: (in Hindi):

1. सिंधी, नरेन्द्र कुमार एवं गोस्वामी, वसुधाकर, 2007, समाजशास्त्र विवेचन, जयपुर : राजस्थान हिन्दी ग्रन्थ अकादमी
2. आहूजा, राम एवं आहूजा, मुकेश, 2008, समाजशास्त्र विवेचना एवं परिपेक्ष्य, जयपुर: रावत पब्लिकेशन्स
3. दोषी, एस. एल. एवं जैन पी. सी., 2006, समाजशास्त्र नई दिशाएँ, जयपुर : रावत पब्लिकेशन्स
4. सिंह, जे. पी., 2008, समाजशास्त्र : अवधारणाएँ एवं सिद्धान्त, नई दिल्ली : प्रेंटिस हाल ऑफ इण्डिया प्राइवेट लिमिटेड
5. सिंह, जे. पी., 2008, आधुनिक भारत में सामाजिक परिवर्तन, नई दिल्ली : प्रेंटिस हाल ऑफ इण्डिया प्राइवेट लिमिटेड
6. मैकाइवर, आर. एम. एवं पेज चार्ल्स एच. 1992 : समाज (एक परिचयात्मक विश्लेषण), आगरा : रतन प्रकाशन मन्दिर (अनुवादक जी. विश्वेश्वरय्या एवं रामपाल सिंह गौड़)


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Maximum Marks: 100

Paper II: Society in India

Unit I: Sociological Understanding of Indian Society

Textual and Field-View Traditions: G.S. Ghurye and M.N. Srinivas,
Civilization and the Marxian Tradition: N.K. Bose and D.P. Mukerji

Unit II: Basic Institutions of Indian Society:

Family, Marriage and Kinship: Meaning and Forms Issues: Continuity and
Change. Caste and Class: Meaning and Forms Issues: Continuity and Change

Unit III: Challenges & Problems Before Indian Society:

Casteism, Communalism, Regionalism, Corruption, Crime Against Women and
Children, Drug Abuse, Problems of Ageing

Essential Readings: (in English):



- Ahuja, Ram, 1993: Indian Social System, Jaipur: Rawat Publications.
Ahuja, Ram, 2002: Society in India: Concepts, Theories and Recent Trends,
Jaipur: Rawat Publications.
Ahuja, Ram, 2014: Social Problems in India, Jaipur : Rawat Publications.
Atal, Yogesh, 2008: Changing Indian Society, Jaipur: Rawat Publications.
Bose, N.K. 1967: Culture and Society in India, Bombay: Asia Publishing
House.
Bose, N.K. 1975: Structure of Hindu Society, New Delhi.
Dube, S.C. 1990: Society in India, New Delhi: National Book Trust.
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14. FRENCH

Scheme of examination: two written papers of 75 mark each & one viva-voce of 50 marks. A candidate has to secure 36% marks in individual papers to declare her/him pass.

PAPER - I:	MAXIMUM MARKS:	75
PAPER - II :	MAXIMUM MARKS:	75
PAPER - III:	<u>MAXIMUM MARKS:</u>	<u>50</u>
TOTAL MARKS:		200

PAPER - I	GRAMMAR	75
PAPER - II	COMPREHENSION, PARAGRAPH WRITING	75
(a)	Two Comprehension passages from the prescribed text	
	[25 marks each] examiners are expected to formulate	50
	Questions on the passages as follows:	
	1a) True or false sentences	5marks
	1b) Examiners should select five words/ verbs from the Text and ask the candidates to make five grammatically correct sentences with the help of those words	10 marks
	1c) Fill in the blanks using words from the text	5 marks
(b)	Write a short paragraph of about 10 to 15 sentences on any one of the following five themes	25
	Topics for the paragraph writing should be:	
	i) Portrait of a friend	
	ii) Letter to a friend inviting him to visit your city explaining main attractions of the city	
	iii) Description of your dream house	
	iv) Visit to a restaurant / descriptive or dialogue form	
PAPER - III	Viva-Voce	50

Teaching Material / Books:

1. Echo I
2. Méthode de Français – Editions maison des langues
3. One Compact Disc Level-1 to go with the method

Reference Books:

1. Synchronie-I
2. Larousse compact Dictionary: French-English/ English-French
3. Conjugaison - Le Robert & Nathan

4. Larousse French Grammar
5. Grammaire Collection "Le Nouvel Entraînez vous" level débutant

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15 GERMAN

SYLLABUS FOR THE FIRST YEAR B.A. IN GERMAN -

Scheme of examination: two written papers of 75 mark each & one viva-voce of 50 marks. A candidate has to secure 36% marks in individual papers to declare her/him pass.

PAPER - I:	MAXIMUM MARKS:	75
PAPER - II :	MAXIMUM MARKS:	75
PAPER - III:	<u>MAXIMUM MARKS:</u>	<u>50</u>
TOTAL MARKS:		200

PAPER - I GRAMMAR

75

Grammar portions

Der Artikel, das Nomen und¹Verb
Personalpronomen
Der Akkusativ und Dativ
Der Imperativ mit >du, Sie, ihr<
Das Präsens von starken Verben
Fragepronomen wer, wen, wem, was
Possessivpronomen
Präpositionen mit dem Dativ und Akkusativ
Modalverben
Wechselpräpositionen
Fragepronomen wo, woher, wohin
Das Präteritum und Perfekt
Reflexivpronomen
Adjektivdeklinaton
Nebensatz
Komparativ und Superlativ der Adjektive
Passiv und Relativsätze

PAPER SECOND

MAX. MARKS 75 DURATION TWO HOURS

COMPREHENSION AND PARAGRAPH WRITING

(c) COMPREHENSION OF THE GIVEN PASSAGES 25 marks each passage

Candidates will be required to read the given two passages and answer the short-answer questions based on the passages – One passage should be from the prescribed text book.

Prescribed text book: Deutsch als Fremdsprache – 1A. Oxford & IBH Publishing house. New Delhi, 1977.

(d) Paragraph writing

Candidates will be required to write one paragraph of about 10 to 15 sentences on one of the below given topics. Examiner to give five topics in the paper.

- (vi) My friend
- (vii) My house
- (viii) My favourite teacher
- (ix) My city
- (x) My family

PAPER - III Viva-Voce

50

Recommended Books: Teste Dein deutsch -1

Teste Dein Deutsch – 2

Tangram – 1 aktuell 1. Aufl. By Rosa-Maria Dallapizza u.a. Max Hueber Verlag. Ismaing, 2004

Lagune 1A with work book and CDs

Eindrücke-Einblicke Lehr- und Arbeitsbuch

Deutsche Sprachlehre für Ausländer – Dora Schulz & Heinz Griesbach

Grammatik der deutschen Sprache by Helbig Buscha

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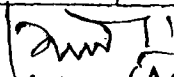
16 Home Science

Examination Scheme in each Year

- Each Theory paper will contain nine questions having three questions from each unit. Candidates are required to attempt five questions in all selecting at least one question from each unit. Each question will be of 10 marks.

BA Home Science Part I

Paper	Subjects	Duration of exam	Maximum marks	Minimum marks	No. of hrs/wk
Theory Paper I	Family Resource Management	3hrs	50	18	3
Practical I	Family Resource Management	3hrs	50	18	2
Theory Paper II	Foods & Nutrition	3hrs	50	18	3
Practical II	Foods & Nutrition	3hrs	50	18	2
		Total	200	72	10


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B.A. PART I**FAMILY RESOURCE MANAGEMENT (THEORY PAPER I)**

Maximum Marks: 50

Minimum Marks: 18

Teaching workload: 3 hrs /week

Total teaching workload: 72 hrs/ year

Objectives :

1. To understand the meaning of resources management concepts related to management.
2. To apply managerial process to management of time, energy and money.
3. To understand saving, investment and credit pattern of family.
4. To increase awareness about consumer problems, rights, responsibilities & protection laws

Contents :**UNIT-I****Housing****Hours**

- | | |
|---|---|
| 1. Function & family need of housing | 1 |
| 2. Principles of house planning: aspect, prospect, grouping of room, roominess, privacy, orientation, circulation, flexibility, spaciousness, aesthetics economy, ventilation services | 5 |
| 3. Site selection: <ul style="list-style-type: none">• Vegetation:<ol style="list-style-type: none">i. sizeii. soil types drainageiii. contour (shape)iv. orientation | 3 |
| 4. Elements and principles of arts and design as related to interior decoration with specific reference to color and light | 6 |
| 5. Floor decoration with use of elementary art | 2 |
| 6. Table setting & etiquettes | 1 |

UNIT II**Interior designing**

- | | |
|---|---|
| 7. Room arrangement and decoration - arrangement of furniture, furnishings and accessories in various rooms. | 5 |
| 8. Kitchen planning, importance of counters, storage, principles, working heights. | 5 |
| 9. Selection and care of household equipment (without reference to any specific equipment) | 2 |
| 10. Household waste & its management by 3R. | 3 |
| 11. Flower decoration <ul style="list-style-type: none">• Basic equipments• Vases and containers• Preparing plant material• Shaping an arrangement | 4 |
| 12. Furniture <ul style="list-style-type: none">• Types of furniture• Selection use & care | 3 |

- Arrangement of furniture in various rooms

UNIT-III

Resource Management

13. Meaning, definition and importance of home management	2
14. Process of management:	4
<ul style="list-style-type: none"> • planning, • Organization, • Implementation, • controlling and evaluation 	
15. Introduction to motivational factor (meaning and types)	4
<ul style="list-style-type: none"> • Values • Goals • Standards • Decision Making • Resources 	
16. Time management:	4
<ul style="list-style-type: none"> • Tools in time management <ul style="list-style-type: none"> i. Time cost ii. Time norms iii. Peak loads iv. Work curve and rest periods • Process of managing time 	
17. Energy Management:	6
<ul style="list-style-type: none"> • Process of energy management • Fatigue • Body mechanics • Works simplification -Mundel's Classes of changes • Ergonomics: Meaning, importance & its components 	
18. Money Management	6
<ul style="list-style-type: none"> • Family Income: sources & type • Budget: Definition & Process of budget making • Saving, investment and raising housing loan: <ul style="list-style-type: none"> i. Definition & Objectives ii. Channels: bank, insurance, post office 	
19. Consumer problems, rights & responsibilities	2
20. Seeking redressal to consumer problems with special reference to consumer courts	4
NOTE: Seminar presentations on selected topics from unit I and unit II	4

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5. Don Welers (1974). Who buys- A Study of the Consumer.
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22. Steidle RE & Bratton EC (1968). Work in the Home. John Wiley and Sons. New York, London.
23. Thomson CH (1970). Home with Character. Massachusetts. C. Health & Co. Lexington. III rd Ed.
24. Varghese MA, Ogle M, Srinivasan K (1985). Home Management. Wiley Eastern Publishers, New Delhi.

FAMILY RESOURCE MANAGEMENT (PRACTICAL I)

Maximum marks: 50

Minimum marks: 18

Teaching workload: 2 practical/ week (2 hours/ practical)

Total teaching workload: 24 practical/ batch

Objectives:

1. To help students understand various banking procedures.
2. To help students understand house planning and interior decoration.

Contents :

Hours

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1. Project work on money management:	4
• How to open various accounts in the bank.	
• Filling up of slips/forms of bank and post office.	
i. Application for draft	
ii. Cheques	
iii. Withdrawal slip	
iv. Money order form	
v. Application for housing loan	
2. Floor decoration: Alpana, Rangoli & Mandana	2
3. Flower arrangement: fresh and dry arrangements.	2
4. Table setting	1
5. Best out of waste (one article)	1
6. Cleaning of wood, stone, tiles, metal & glass.	1
7. House plans :	6
• For various income groups (LIG, MIG, HIG)	
i. Drawing of architectural symbols of house plan	
ii. Architectural symbols of electricity plan	
iii. Furniture symbols	
• Rooms (making any one paper model)	3
i. Drawing Room	
ii. Dining cum leaving room	
iii. Children study room	
iv. Bed room	
v. Pooja Room	4
• Kitchen planning (making any one paper model)	
i. One wall	
ii. Two wall	
iii. L shape	
iv. U shape	

Examination scheme:

Total Marks: 50 marks

1. Major: house plan/paper plan of rooms/paper plan of kitchen : 20 marks

2. Minor - I: Table setting/flower arrangement: 10 marks

Minor - II: Floor decoration/cleaning/filling of forms: 10 marks

3. Internal - 10 marks

FOODS & NUTRITION (THEORY PAPER II)

Maximum Marks: 50

Minimum marks: 18

Teaching workload: 3 hrs /week

Total teaching workload: 72 hours/week

Objectives:-

1. To give knowledge about basics of nutrition, nutrients and metabolism.
2. To give knowledge about meal planning for families and individuals.
3. To give knowledge about Normal & Therapeutic nutrition.
4. To give knowledge about Nutritional problems of public importance.

Contents	Hours
Unit I	
1. Definition of Food and Nutrition, 5 basic Food groups, Balanced diet	
2. Functions of food : <ul style="list-style-type: none"> • Physiological – Hunger, Appetite, Satiety. • Psychological • Social, Economic, Cultural. 	1
3. Functions, sources, Effect of deficiency, Daily allowances of : <ul style="list-style-type: none"> • Macro Nutrients <ul style="list-style-type: none"> i. Carbohydrates ii. Proteins iii. Fats • Micro Nutrients <ul style="list-style-type: none"> i. Minerals – Calcium, Iron, Iodine, Fluorine ii. Vitamins <ul style="list-style-type: none"> Water Soluble – B complex vitamins ,Vitamin C Fat soluble—A, D, E & K • Water Balance • Energy Metabolism <ul style="list-style-type: none"> i. Unit of measurement of energy, definition of calorie, Kilocalorie. ii. Gross & Physiological fuel value of food. iii. BMR and factors affecting BMR/ Energy requirement (RDA) and factors affecting energy requirement. 	6
	12
	1
	4
Unit II	
4. Meal Planning <ul style="list-style-type: none"> • Advantages & importance of meal planning. • Goals of meal planning <ul style="list-style-type: none"> i. Food budget-factors affecting food budget, budgets for low, moderate & liberal incomes ii. Matching meals to time & energy iii. Other factors –taste, aroma, flavour, texture, temperature, traditions, likes & dislikes. • Factors affecting meal planning. • Factors affecting food intake. 	8
5. Normal Nutrition -- Nutritional requirements, physiological demands, problems, dietary guidelines for : <ul style="list-style-type: none"> • Pregnancy • Lactation • Infancy (with special emphasis on breastfeeding & complementary feeding) • Preschool child • School going child • Adolescent • Adult • Elderly person 	16

Unit III**6. Therapeutic Nutrition**

18

- Modification of normal diet to therapeutic diet.
- Dietary management of the following:
 - i. Obesity
 - ii. Under weight
 - iii. Diseases of the gastrointestinal tract – Diarrhoea, Constipation , dyspepsia/Indigestion
 - iv. Fevers
 - v. Liver – Jaundice
 - vi. Diabetes
 - vii. Hypertension

7. Nutritional Problems of Public Health Importance and their management :

- Protein Energy Malnutrition
- Anaemia
- Fluorosis
- Vitamin A deficiency
- Iodine Deficiency Disorder

6

References:

1. Srilakshmi B (2011). Dietetics. New Age International Publishers
2. Srilakshmi, B. Food Science , new Age International (P) Ltd. Publishers, New Delhi,
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5. Mudambi , S.R. and Rajagopal. M.V., 1997 Fundamentals of Foods & Nutrition, New Age International (P) Ltd, New Delhi.

FOODS AND NUTRITION (PRACTICAL II)

Maximum marks: 50

Minimum marks: 18

Teaching workload: 2 practicals/ week (2 hours/ practical)

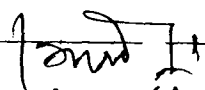
Total teaching workload: 24 practicals/ batch

Contents:**Hours****1. Methods of cooking: - Preparation of any four dishes using the following methods of cooking**

- Boiling – for e.g. Rice, Tea, Coffee
- Steaming – Idli , Dhokla , Muthia
- Simmering – kheer , rabadi , kadhi , custard, stews- apple & pear


6

<p>Frying</p>	
<p>i. Shallow – cheela , parantha, tikki</p>	
<p>ii. Deep – pakoda , mathri , samosa , kofta etc.</p>	
<ul style="list-style-type: none"> • Baking – cake , biscuit , nan khatai 	
<ul style="list-style-type: none"> • Roasting – papad , moongphali (groundnuts) 	1
<p>2. Preparation of Beverages – Tea (hot & iced), Coffee (Hot & cold), chhaach, lassi, milk shakes, fruit punch (using squashes, fresh fruits), lemonade, jaljeera, aamla shake, aam panna, mocktails(2), mirinda shake.</p>	1
<p>3. Cereal cookery – chapaati, puri(plain, missi), parantha (stuffed, plain), cheela, bhatura , rice (plain, pulao, sweet), khichdi, daliya. Upma, halwa, baati, choorma, mathri (namak para, shakkar para), chowmein, pizza, sandwiches (open, toasted, vegetable)</p>	1
<p>4. Legumes & pulses-daal (plain & daal fry), rajma, chhole, dal makhani. Kadhi, mangodi, dahivada, dal pakodi, besan pakodi, sprout chaat, dal halwa.</p>	1
<p>5. Vegetables-Dry Vegetables (for e.g. aalu gobi, methi aalu, arbi, bhindi), stuffed vegetables (bhindi, capsicum), vegetables with gravy (dahi aalu, malai kofta, gatta, dum aalu, kadhai panner, shahi pancr), baked vegetables.</p>	1
<p>6. Milk & Milk products – paneer, khoa, curd, shrikhand, kheer rabri, fruit custard, raita, fruit cream.</p>	1
<p>7. Soups-clear & cream including Indian soups-palak , tomato, mixed veg., minestrone, sweet corn, pea soup, lentil, raabri.</p>	1
<p>8. Salads-tossed, fruit salad, sprout salad, kosambri, corn, chana, pasta salad, salad dressing, (mayonnaise, lemon, vinegar).</p>	1
<p>9. Savory food preparation – dosa, uttapam, mixed veg cutlets, hara bhara kabab, burger, samosa, kofta, kachori, spring rolls, vada pav bhaji, sago khichri, bhelpuri</p>	1
<p>10. Sweets – jalebi, sandesh, gulab jamun, laddu, coconut barfi, gujiya, petha roll,</p>	


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chhaina murki, jalebi	1
11. Meal planning for	6
<ul style="list-style-type: none"> • Pregnant woman • Lactating woman • Packed lunch for school going child adult man / woman • Elderly 	
12. Plan dishes rich in	2
<ul style="list-style-type: none"> • Energy • Protein • Calcium • Iron • Vitamin A / β carotene 	
Examination scheme:	
Total Marks: 50 marks	
1. Major problem -	25 marks
Meal Planning and preparation of one dish for any one of the following	
<ul style="list-style-type: none"> • Pregnant woman • Lactating woman • Packed lunch for school going child adult man / woman • Elderly 	
2. Minor Problem -	15 marks
Preparation of one dish from	
<ul style="list-style-type: none"> • Any one method of cooking • Any one food group (cereals, vegetable, milk etc.) 	
3. Internal -	10 marks


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17 TEXTILE-CRAFT

Scheme:

	<u>DURATION</u>	<u>MAX.MARK</u>	<u>MIN.MARK</u>
(i) Theory: One paper	3Hrs	60	22
(ii) Practical:	5Hrs	80	28
(iii) Submission:		60	22

Syllabus (Theory):

Part- A

1. Introduction to Textiles
2. Definition of fibre, Properties of fibre
3. Classification of fibre
4. Natural fibres
5. Yarn manufacture by Takli and Charkha

Part- B

1. Warp and Weft, Difference between warp and weft
2. Handloom, Parts of Handloom
3. Warp path on Handloom
4. Motion of Handloom(primary & secondary)
5. Elementary Weaves(Basic weaves): Plain, Twill, Satin & Sateen

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Part- C

1. Concept of colours, colour scheme, Achromatic & Monochromatic colour
2. Dyes and Pigments (colourless dyes)
3. Classification of Dyes
4. Fabric finishes- Introduction and Importance
5. Dyeing process of Tie and Dye

Syllabus (Practical):

Samples preparation

- (i) Tie and Dye (Ball shape, plated & folded, leharia and bandhej)
- (ii) Elementary weaves (plain, twill, satin and sateen) on graph paper
- (iii) Primary colour, secondary colour, colour scheme, achromatic & monochromatic colour
- (iv) Hand painting
- (v) Stencil cutting on paper


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18 **GPEM**

B.COM./B.A./B.SC. PART -I

PAPER- I : UNDERSTANDING TEXTLE

B.A./B.COM. M.M. 60

HRS. 3


B.SC. M.M. 50

SECTION A: Textile Technology

1. General properties of : Natural Fibers – cotton , wool , silk,
Regenerated -Rayon , Acetate
Synthetic Fibers – Nylon , Acrylic
2. Fibers to yarn : The basic processes involved in making
Yarns including Blending , carding ,
combing, mechanical and chemical spinning
3. Fabric construction : Weaving: plain ,Twill, & satin weave
4. Fabric Finishes : Elementary knowledge of calendaring ,
mercerization and tentering

SECTION B :Traditional Textile

5. Knowledge of hand woven fabrics : Dacca muslin ,jamdani , chanderi,brocade
baluchari, kashmiri shawls ,doria ,
kanjivaram
6. Dyed Fabrics : Bandhej , ikat ,patola.
7. Printed Fabric : kalamkari , madhubani
8. Traditional embroidaries of india :
 - (a).kashida of Kashmir
 - (b)kasuti of karnatka
 - (c)Manipuri
 - (d)chamba rumal


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- (e)kantha of bengal
(f)Phulkari of Punjab
(g)Chikankari of lucknow

SECTION - C

SELECTION CRITERIA

9..Selection of suitable fabrics for infants, toddlers ,pre school children , school going children , adolescents , adults and special needs

10.. Buying criteria for readymade garments, definition ,origin &evolution of ready to wear garments

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6. Brindra singh ,vastra vigyan avam paridhan.
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B.SC./B.A./B.COM. PART -I

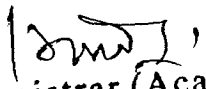

PAPER-II

BUSINESS AND GARMENT INDUSTRIES

B.A./B.COM. -M.M. 60

HRS:-3

B.SC.-M.M. 50


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SECTION A

1. Meaning and scope of business with special reference to garment export trade in india
2. The important factors to be considered at the same time of commencement of business –legal, economical, and social.

3. Different types of business-

- (a). individual organization
- (b) partnership
- (c) co-operative
- (d) public sector
- (e) company

4. Objectives, importance and utility of bookkeeping.

SECTION - B

MERCHANDISING THEORY


5. Introduction to fashion merchandising: merchandising planning, scheduling, buying and evaluation
6. Visual merchandising.
7. Careers in Apparel industries.

SECTION -C

GARMENT INDUSTRY

8. Project planning for garment production unit.
9. Production and storage space, laundry area of garment industry.
10. Site selection for unit.
11. Budgeting for garment production unit.

Referances :


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B.A./B.COM./B.SC. PART -I

PRACTICAL -I

BASICS OF SEAMS AND EMBROIDERIES

B.A./B.COM.—M.M. 80

HRS. 4

B.SC.—M.M. 50

1. Decorative samples :

Lacè edging - (machine)

Gathers -(machine), darts

Pleats- knife ,box, inverted box

Frills- one side ,two sided

Tucks -pin, cross ,shell

Fastners -hook, tich button, shirt button ,kaaj, loop with button, zip

Basic seams -Basting (,even, uneven, bakhiya , blanket)

Hems -visible , invisible

Plackets -continuous ,two piece

Pockets - patch ,bound, inseam, kurta

Piping and facings

2. Basic Embroidary stitches :

Chain, stem, running, lazy-dazy, satin, herring- bone, buttonhole ,bullion ,feather patch and appliqué work.

3. Make samples of following traditional embroidaries :

Kashida, kantha, kasuti, phulkari, chamba rumal, chikankari, embroidery of kutch.

4. Taking body measurements and knowledge of standard measurements from child to adults.

5. Design and Prepare an article of embroidery/stitching sample.

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19. INVESTIGATIVE BIO-TECHNOLOGY

Paper I : Bio-Chemistry and General Bacteriology

Max. Marks 60 3 hrs. duration Min. Pass Marks 22


Teaching Periods 60

Section - A : Bio-Chemistry (Teaching Period 30)

1. Introduction and Scope of Bio-Chemistry.
2. Simple Analytical techniques : Weighing of solids and liquids; Preparation of solutions : Simple acid-base titration.
3. pH, Buffers types and their uses.
4. Mole, Molar and normal solutions, concentration units.
5. Classification and metabolism of Carbohydrates, Lipids, Proteins, Nucleic acids and Nucleo proteins.
6. Introduction of Vitamins and Enzymes; Clinically important Enzymes and their estimation.
7. Metabolism of inorganic substances like Iodine, Phosphorous, Copper, Iron and Calcium.
8. Electrolytes in various tissue fluids in health and disease.
9. Gastric Analysis- Functional test of Liver, Kidney Pancreas and alkalosis, acidosis.

Section-B General Bacteriology (Teaching Period 30)

1. Microbial World.
2. Structure of bacterial cell; functions of cell organelles.
3. Sterilization and disinfection.


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4. Culture media.
5. Cultivation of Bacteria.
6. Identification methods in bacteriology.

Paper II - Elementary Anatomy, Physiology and Halmatology
Max. Marks 60 3 hrs. duration Min. Pass Marks 22
Teaching Periods 60

Section-A : Elementary Anatomy and Physiology

(Teaching Period 30)

1. Introduction to human body.
2. Important land marks in surface anatomy for L.M. and I.V. injection in adults, children and infants
3. Musculo- Skeleton and Respiratory system.
4. C.V.S. (Cardio Vascular System) circulation.
5. G.I.I.T. (Gestro Intestine Tract), Lever, Gallblader & Pancreas.
6. Urinary System.
7. C.N.S. (Central Nervous System) and A.N.S. (Autonomic Nervous System)
8. Endrocrines and Reproductive system.
9. Skin and temperature regulation.

Section - B : Hematology (Teaching Period 30)

1. Structure of cell and cell division.
2. Blood forming tissues and Bone-marrow.
3. Formation of RBCs, granulocytes, Mononuclear cells, Platelets and their normal counts.
4. Blood coagulation.
5. Anaemias-classification, diagnosis.

Practicals

Max. Marks 80 (52x3 periods) Min. Pass Marks 28

Unit-I : Bio-Chemistry

1. Glassware use in Bio-chemistry.
2. Cleaning of Glassware, weighing and measuring volumes.
3. Making and testing of distilled water.
4. Importance of calibration of glass apparatus used in estimation.

Syllabus B.A. Part-I

5. Collection, coding, preservation and disposal of biological specimen material for biochemical analysis.
6. Principles of Colorimetry and verification of Lumber-Bear's Law.
7. Bio-chemical estimation of-
 - (a) Sugar
 - (b) Urine
 - (c) Stool
 - (d) Protein
 - (e) A.G. ratio.
8. Detection of Organic poisons like opium, oliander and vomice.
9. Detection of Inorganic poisons like cooper, arsenic, antimony, tin, murcery, lead, barium and zinc phosphate, cyanides & insecticides.

Unit-II General Bacteriology and Hematology

General Bacteriology :

1. Introduction to microscopy, various types of microscopes and their uses.
2. Wet bacteria's mount and hanging drop preparation and dark field examination.
3. Preparation of smears for bacterial examination and Gram's Stain.
4. Preparation of various stains.
5. Staining of Smears-Sputum C.S.F. Body fluids, pus, asyirations.

Hematology :

1. Collection of blood from various sites in adult and children.
2. Cleaning of slides and cover slips and identification of various pipettes and their cleaning.
3. Making of statins used in Hematology.
4. Staining and examination of blood films.
5. Differential RBC and WBC counts.
6. Estimation of Hemoglobin by comparator and calorimeter.


20 MATHEMATICS

Teaching : 3 Hours per Week per Theory Paper.
2 Hours per Week for Practicals

Examination: Min.Pass Marks		Max. Marks	
Scheme:	Science – 54		150
	Arts – 72		200
		Duration	Max.Marks
Paper – I	Discrete Mathematics	3 hrs.	40 (Science) 53 (Arts)
Paper – II	Calculus	3 hrs.	40 (Science) 53 (Arts)
Paper – III	Analytic Geometry and Optimization Theory	3 hrs.	40 (Science) 54 (Arts)
Practical	Optimization Techniques	2 hrs.	30 (Science) 40 (Arts)

Note:

1. Common paper will be set for both the Faculties of Social Science and Science. However, the marks obtained by the candidate in the case of Faculty of Social Science will be converted according to the ratio of the maximum marks of the papers in the two Faculties.
2. Each candidate is required to appear in the Practical examination to be conducted by internal and external examiners. External examiner will be appointed by the University and internal examiner will be appointed by the Principal in consultation with Local Head/Head, Department of Mathematics in the college.
3. An Internal/external examiner can conduct Practical Examination of not more than 100 (Hundred) Candidates.
4. Each candidate has to pass in Theory and Practical examinations separately.


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Paper – I: Discrete Mathematics**Teaching : 3 Hours per Week****Duration of Examination : 3 Hours****Max. Marks: 40 (Science)****53 (Arts)**

Note: This paper is divided into FIVE Units. TWO questions will be set from each Unit. Candidates are required to attempt FIVE questions in all taking ONE question from each Unit. All questions carry equal marks.

Unit 1 : Sets, Cardinality, Principal of inclusion and exclusion, Mathematical induction. Relations and Functions- Binary relations, Equivalence relations and Partitions, Partial ordered relations and Lattices, Chains and Antichains, Pigeon Hole principle.

Unit 2: Boolean Algebras- Lattices and Algebraic structure, Duality, Distributive and Complemented Lattices. Boolean Lattices, Boolean functions and expressions. Fundamental theorem of arithmetic, divisibility in \mathbb{Z} , Congruences, Chinese Remainder Theorem, Euler's ϕ -function, primitive roots.


Unit 3: Logic and Propositional Calculus, Propositions, Simple and compound, Basic Logical operations, Truth tables, Tautologies and contradictions, Propositional Functions, quantifiers. Discrete numeric functions and Generating functions. Recurrence relations and Recursive Algorithms – Linear Recurrence relations with constant coefficients. Homogeneous solutions. Particular solution. Total solution. Solution by the method of generating functions.

Unit 4: Graphs – Basic terminology, Multigraphs, Weighted graphs, Paths and circuits, Shortest paths, Introduction to Eulerian and Hamiltonian Graphs. Travelling Salesman problem. Union, Join, Product and composition of graphs. Planar graphs and Geometric dual graphs.

Unit 5: Trees – Properties, Spanning tree, Binary and Rooted tree. Digraphs – Simple digraph, Asymmetric digraphs, Symmetric digraphs and complete digraphs. Digraph and Binary relations. Matrix representation of graphs and digraphs.

Reference Books:

1. V.K. Balakrishnan, Introductory Discrete Mathematics, Prentice-Hall, 1996.
2. N. Deo, Graph Theory with Applications to Computer Science, Prentice-Hall of India.
3. S. Wiitala, Discrete Mathematics: A Unified Approach, McGraw-Hill Book Co.
4. J.P. Tremblay and R. Manohar, Discrete Mathematical Structures with Applications to Computer Science, McGraw-Hill Book Co., 1995.
5. Ian Anderson, A First course in Combinatorial Mathematics, Springer, 1989.
6. C.L. Liu, Elements of Discrete Mathematics, (Second Edition), McGraw Hill, International Edition, 1986.
7. Kenneth H. Roson, Discrete Mathematics and Its Applications, Tata Mc-Graw Hills, New Delhi, 2003.


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Paper- II: Calculus**Teaching : 3 Hours per Week****Duration of Examination : 3 Hours****Max. Marks: 40 (Science)
53 (Arts)**

Note: This paper is divided into FIVE Units. TWO questions will be set from each Unit. Candidates are required to attempt FIVE questions in all taking ONE question from each Unit. All questions carry equal marks.

Unit 1: Series – Infinite series and Convergent series. Tests for convergence of a series – Comparison test, D'Alembert's ratio test, Cauchy's n-th root test, Raabe's test, De-Morgan-Bertrand's test, Cauchy's condensation test, Gauss's test, (Derivation of tests is not required). Alternating series. Absolute convergence. Taylor's theorem. Maclaurin's theorem. Power series expansion of a function. Power series expansion of $\sin x$, $\cos x$, e^x , $\log_e(1+x)$, $(1+x)^n$.

Unit 2: Derivative of the length of an arc. Pedal equations. Curvature – Various formulae, Centre of curvature and Chord of curvature. Partial differentiation. Euler's theorem for homogeneous functions. Chain rule of partial differentiation. Total differentiation, Differentiation of implicit functions.

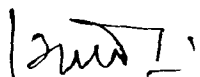
Unit 3: Envelopes and evolutes, Maxima and Minima of functions of two variables. Lagrange's method of undetermined multipliers. Asymptotes. Multiple points. Curve tracing of standard curves (Cartesian and Polar curves).

Unit 4: Beta and Gamma functions, Reduction formulae (simple standard formulae), Double integrals in Cartesian and Polar Coordinates, Change of order of integration. Triple integrals. Dirichlet's integral.

Unit 5: Areas, Rectification, Volumes and Surfaces of solids of revolution.

Reference Books:

1. Chandrika Prasad and Gorakh Prasad, A Text Book on Differential Calculus, Pothishala Pvt. Ltd., Allahabad, 1992.
2. Chandrika Prasad and Gorakh Prasad, A Text Book on Integral Calculus, Pothishala Pvt. Ltd., Allahabad, 1992.
3. Shanti Narayan and P.K. Mittal, Differential Calculus, S. Chand & Co., N. D., 2013.
4. Shanti Narayan and P.K. Mittal, Integral Calculus, S. Chand & Co., N. D., 2013.
5. H.S.Dhami, Differential Calculus, Age Int. Ltd., New Delhi, 2012.
6. M. J. Strauss, G. L. Bradley and K. J. Smith, Calculus (3rd Edition), Dorling Kindersley (India) Pvt. Ltd. (Pearson Education), Delhi, 2007.
7. H. Anton, I. Bivens and S. Davis, Calculus (7th Edition), John Wiley and sons (Asia), Pt Ltd., Singapore, 2002.
8. G.B. Thomas, R. L. Finney, M. D. Weir, Calculus and Analytic Geometry, Pearson Education Ltd, 2003.


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Paper-III: Analytic Geometry and Optimization Theory**Teaching: 3 Hours per Week****Duration of Examination: 3 Hours****Max. Marks: 40 (Science)****54 (Arts)**

Note: This paper is divided into FIVE Units. TWO questions will be set from each Unit. Candidates are required to attempt FIVE questions in all taking ONE question from each Unit. All questions carry equal marks.

Unit 1: Polar equation of conics, Polar equation of tangent, normal and asymptotes, chord of contact, auxiliary circle, director circle of conics

Unit 2: Sphere, Cone.


Unit 3: Cylinder, Central Conicoids – Ellipsoid, Hyperboloid of one and two sheets, tangent lines and tangent planes, Direct sphere, Normals.

Unit 4: Generating lines of hyperboloid of one sheet and its properties. Reduction of a general equation of second degree in three-dimensions to standard forms.

Unit 5: The linear programming problem. Basic solution. Some basic properties and theorems on convex sets. Fundamental theorem of L.P.P. Theory of simplex method only Duality. Fundamental theorem of duality, properties and elementary theorems on duality only.

Reference Books:

1. S.L. Loney, The Elements of Coordinate Geometry, Macmillan and co. London, 1895.
2. R.J.T. Bell, Elementary Treatise on Co-ordinate geometry of three dimensions, Macmillan India Ltd., 1994.
3. N.Saran and R.S.Gupta, Analytical geometry of Three Dimensions, Pothishala Pvt. Ltd., Allahabad, 1992.
4. P.K. Jain and Khalil Ahmed, A Text Book of Analytical geometry of Three Dimensions, Wiley-Eastern I.td., 2000.
5. G. Hadley, Linear Programming, Narosa Publishing House, New Delhi, 2002.
6. Hamdy A. Taha, Operations Research, An Introduction (9th edition), Prentice-Hall, 2010.


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Practical: Optimization Techniques
Teaching: 2 Hours per Week

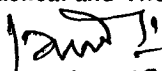

Examination:	Duration: 2 Hours	
Scheme	Science	Arts
Max.Marks	30	40
Min.Pass Marks	10	13
Distribution of Marks:		
Two Practicals one from each group		
10 Marks each	= 20 Marks	(13 Marks each) 26
Practical Record	= 05 Marks	07
Viva-voce	= 05 Marks	07
Total Marks	= 30 Marks	40

Group A: Modelling of industrial and engineering problems into LPP and its dual and their solution by Simplex Method.

Group B: Modelling of industrial and engineering problems into Assignment Problems and Transportation Problems and their solutions.

Note:

1. Problems will be solved by using Scientific Calculators (non-Programmable)
2. Candidates must know about all functions and operations of Scientific Calculator.
3. Each Candidate (Regular/non-Collegiate) has to prepare his/her practical record.
4. Each Candidate has to pass in Practical and Theory examinations separately.

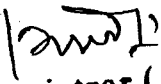


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21. ECONOMICS

Scheme:	Min. Pass Marks	Max. Marks
Arts	72	200
Science	54	150
Paper – I 3 hours duration	Micro Economic Theory	Arts 100 Science 75
Paper – II 3 hours duration	Indian Economy	Arts 100 Science 75

Note: There will be two papers of Economics. Each paper shall consist of three parts. Part A shall contain question No 1 consisting of very short type X (Ten) questions. The candidate is required to answer each question in 20 words. Part B shall contain question No 2 consisting of V (five) questions. The candidate is required to answer each question in 100 words. Part C shall contain three essay type questions (one from each section) with internal choice.

A candidate will be required to attempt five questions in all. All questions of Part A and Part B are compulsory while rest 3 questions are to be attempted from parts C selecting one question from each section. All questions carry equal marks. Each question will carry 20 marks for Arts students and 15 marks for Science students.


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Paper 1- Micro Economic Theory

Section – A

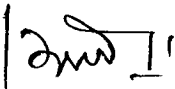

Economic Theory: Nature and Technique. Micro and Macro Economics. Static, Dynamic and Comparative Static Analysis. Positive and Normative Economics. Theory of Consumer's Behavior: Utility Analysis. Indifference Curve Analysis, Consumer's Equilibrium, Price Substitution and Income Effects. Normal, Inferior and Giffen goods. Price Consumption Curve and Derivation of Demand Curve. Elasticity of Demand: Price, Income and Cross Elasticity of Demand. Arc and Point Elasticity. Relationship between Elasticity, AR, MR, TR. Factors Affecting Price Elasticity of Demand. Substitute and Complementary Goods, Consumer's Surplus.

Section – B

Production Function: Law of Variable Proportions. Three Stages of Production Function. Iso-Quant and Iso-Cost, Optimum Factor Combination. Law of Returns and Returns to Scale. Theory of Cost-Short run and long-run Cost Curves. Different Market Structures: Perfect Competition: Determination of Price and Output in the Short and long run. Monopoly: Determination of Price and Output in the Short and long run. Discriminating Monopoly. Monopolistic Competition-Short and long run Equilibrium of the Firm. Excess Capacity.

Section – C

Marginal Productivity Theory of Distribution Factor Pricing under Perfect and Imperfect Competition in labour Market. Ricardian Theory of Rent. Modern Theory of Rent and Quasi-


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Rent. Classical Theory of Interest, liquidity Preference, Theory of Interest. Risk and Uncertainty, Theory of Profit.

Books Recommended:

1. Hal R. Varian: Intermediate Microeconomics WW Norton and Co. Fifth Edition.
2. D. Salvator: Micro Economics, Harper-Collins, 1991.
3. H. L. Ahuja: Advanced Economic Theory, S. Chand and Company, New Delhi.
4. एच. एल. आहूजा: उच्चतरआर्थिकसिद्धान्त, एस. चांद एण्ड कम्पनी, नईदिल्ली।
5. लक्ष्मीनारायण नाथूरामका: व्यक्तिअर्थशास्त्र, रमेशबुकडिपो, जयपुर।

Reference Books:

1. R. H. Leftwitch: Price System and Resource Allocation, Holt, Reinhart and Winston; 3rd Edition(Hindi & English). (Hindi & English).
2. Samuelson and Nordhaus: Economics, McGraw-Hill/Irwin; 19th edition.
3. J. P. Gould and C.E. Ferguson: Micro Economic Theory Revised by J.P. Gould and E.P. Lazer, All India Traveller Book Seller, Delhi.

Paper – II Indian Economy

Section – A

Basic Characteristics of Indian Economy, Natural Resources: Land, Minerals, Water, Forests and Power Resource. Population: Size and Growth, Labour Force, Occupational Distribution, and Population Policy, Human Resource Development Indicators (i.e., literacy, Health, Nutrition etc.) Agriculture: Role and Importance of Agriculture in the Indian Economy; Land Reforms, Irrigation and Irrigational Policy, Use of Fertilizers and Fertilizer Policy; Institutional Credit for Agriculture, Marketing of Agricultural Goods – Support Price and Public Distribution System.

Section – B

Industry: Role, Strategy and Challenges, SMEs, Public and Private Sector Industries, Industrial Finance – Role of Financial Institutions and Commercial Banks: Industrial Policy – Pre and Post Reform Period, Recent Industrial Policy, New Economic Policy and Disinvestment of Public Sector Undertaking.


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Foreign Trade: Size, Composition and Direction; Recent Trends in India's Foreign Trade;
Foreign Trade Policy.

Section – C

Planning in India: Objectives of Five Year Plans, Review of Economic Progress under the Plans. A Comprehensive Study of the latest Five Year Plan. NITI Aayog, National Development Agenda. Problems of Poverty; Unemployment, Inflation and Regional Inequalities; Rural Development Programmes and Policy; Sectoral Reforms in Infrastructure after 1991.

Books and References:

1. Rudra Datt and K.P.M. Sundaram: Indian Economy (Hindi & English), S. Chand, New Delhi.
2. S. K. Mishra and V. K. Puri: Indian Economy, Himalaya Publishing House, New Delhi.
3. A. N. Agarwal: Indian Economy, Vikas Publishing Co., New Delhi.
4. Laxminarayan Nathuramka: Bhartiya Arthvyavastha, Ramesh Book Depot, Jaipur.
5. Government of India: Economic Survey (Hindi & English).
6. Government of India: Five Year Plan (Latest).


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22. Geography

Scheme of Examination

Faculty	Min. Pass Marks	Max. Marks
Arts/Social Science	72	200
Science	54	150
Paper I	Physical Geography	Arts 75 Science 50
Paper II	Geography of Rajasthan	Arts 75 Science 50
Practical	18	Arts 50 Science 50

Notes

- Students are permitted to use the stencils, simple calculator and log tables wherever needed in both theory and practical examinations. Each theory paper will have a teaching of 4 hours per week.
- There will be a common paper for Arts and Science.
- Q.1 will be compulsory and will cover the entire course of the paper.
Q. No. 1 of 20% marks of the maximum marks be set in two parts.
 - Part (a) will have ten items for locating on a map (to be supplied by examination centre) carrying 10% marks of the maximum marks and candidates shall attempt any five items.
 - Part (b) will have 10 short answer questions carrying 10% marks of the maximum marks and candidates shall attempt any five items.
- Remaining 9 questions carrying equal marks will be set with three questions from each section of the syllabus.
- Candidate will attempt 5 questions in all including question No. 1 selecting at least one question from each section.
- Practical examination will be conducted by the board of examiners.
- The candidate will have to pass in theory and practical separately.
- The non-collegiate candidates will have to attend a practical training camp of 48 hours at a college affiliated to the University of Rajasthan, Jaipur notified by the University from time to time in which Geography subject is taught on payment of fee fixed by the University. The candidates appearing at examination from any examination centre located in Jaipur City will attend the practical camp at the University Post Graduate Department on payment of fee fixed by the University. The candidate will procure Certificate of successful completion of practical training camp from the College/Department of Geography and produce the same at the time of practical examinations.


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SYLLABUS

Paper I: Physical Geography

Section A

Definition, scope and development of physical geography, geological history of the Earth; zoning of Earth's interior, rocks, origin of continents and oceans; continental drift theory and plate tectonics; concept of isostasy: views of Airy, Pratt, Joly and Holmes. Earth movements: epeirogenic and orogenic; mountain building theories: Kober, Jeffreys, Daly, Joly and Holmes and plate tectonics; denudation, cycle of erosion: views of W.M. Davis and W. Penck, erosional and depositional topographies: river, under groundwater, glacier, wind and oceanic waves.

Section B

Composition and structure of the atmosphere, insolation, air temperature, air pressure, pressure belts and planetary winds, monsoon and local winds, humidity, classification of clouds and precipitation, air masses, fronts and cyclones: tropical and temperate, classification of the world climates: Koppen and Thorthwaite, general climatic classification.

Section C

Surface configuration of oceans bottom: Pacific, Atlantic and Indian oceans, ocean deposits, horizontal and vertical temperature of oceans, oceanic salinity, tides, oceanic waves and currents, coral reefs and their origin: views of Darwin and Dana, W.M. Davis, Murray, classification of marine resources, biosphere and its components, ecosystems, plant community and animal kingdom, biomes: equatorial rainforest, monsoon, savanna and temperate grasslands.

Recommended Readings:

- चौहान, वी.एस. व गौतम, ए. 2005, भौतिक भूगोल (जीवमण्डल सहित)। रस्तोगी पब्लिकेशन्स, मेरठ।
दयाल, पी. 2012, भौतिक भूगोल। राजेश पब्लिकेशन्स, नई दिल्ली।
गौतम, अल्का, 2012 : भौतिक भूगोल। रस्तोगी पब्लिकेशन, मेरठ।
Husain, M. 2001, Fundamentals of Physical Geography. Rawat Publication, Jaipur
Hess, D. 2012: Physical Geography : A Landscape Appreciation. PHI Learning Private Limited, New Delhi, Mcknight's Tevtt Edition.
Khullar, D.R. 2012: Physical Geography. Kalyani Publishers, New Delhi
सिंह, सविन्द्र, 2005 : भू-आकृति विज्ञान। तारा पब्लिकेशन, वाराणसी।
सिंह, सविन्द्र, 2011: भौतिक भूगोल का स्वरूप। प्रयाग पुस्तक भवन, इलाहाबाद।
शर्मा, एच.एस., शर्मा, एम. एल. एण्ड मिश्रा, आर.एन. 2008: भौतिक भूगोल। पंचशील प्रकाशन जयपुर।
Sharma, R.C. and Vatal M. 1999: Oceanography for Geographers. Chaitanya Publishing House, Allahabad.
Strahler, A.N. and Strahler, A.H. 1989: Elements of Physical Geography. John Wiley & Sons, New York.
Tikka, R.N. 1999: Physical Geography. Kedar Nath Ram Nath & C., Meerut.

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Paper II: Geography of Rajasthan

Section A

Physical aspects of Rajasthan: geological structure, relief, climate, drought, drainage, natural vegetation. Environmental pollution -causes and types; desertification, soils, soil erosion and conservation; availability, problems and conservation of water resources.

Section B

Mineral resources: distribution and production; Power and energy resources: distribution and production (hydro-electricity, coal, petroleum, solar energy and bio-energy) irrigation sources, irrigation intensity, crop wise irrigation, quality of irrigation water problems, irrigation projects: detailed study of Indira Gandhi canal project, Chambal valley project, Mahi Bajaj Sagar projects on physical and socio-economic aspects, agriculture: development under five year plans, problems of agriculture development, general land use, live-stock and dairy development, minerals.

Industries: textile, sugar, cement, marble and granite, fertilizer, zinc and copper smelting.

Transport & trade, development of tourism, desert development programme, tribal areas development programme, Aravali hill development programme.

Section C

Cultural and development aspects: population-number, growth, distribution and density, rural and urban, male and female population, literacy status, occupational structure, schedule castes and schedule tribes, population problems, study of bhil, meena and garasia.

Settlement pattern: types of settlements, building materials and house types in Rajasthan with examples, factors affecting settlement.

Recommended Readings:

Bhalla, L.R. 1996-97: Geography of Rajasthan. Kuldeep Publications, Jaipur.

Gujar, R.K. 1992: Geography of Indira Gandhi Canal. Rajasthan Hindi Granth Academy.

Lodha, R. & Maheshwari, D. 2001: Geography of Rajasthan. Shahitya Bhawan Publication, Hospital Road, Agra

Mishra, V.C. 1967: Geography of Rajasthan. National book trust of India, New Delhi.

नाथुरामका, एल.एन., 2012.13: राजस्थान की अर्थव्यवस्था। कॉलेज बुक हाउस, जयपुर।

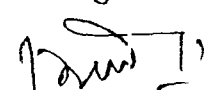
साईवाल, स्नेह 2012: राजस्थान का भूगोल। कॉलेज बुक हाउस, जयपुर।

Sing, R.L. 1971 (ed.): India A Regional Geography NGSI. Varanasi.

Attar Singh. 1992: Flood Prone Areas of India. Aviskar Publishers Jaipur

Sharma H.S. and M.L. Sharma 2014: Geography of Rajasthan. Panchcil Puplicher, Jaipur.

सक्सेना, एच.एम., 2012: राजस्थान का भूगोल। राजस्थान हिन्दी ग्रन्थ अकादमी, जयपुर।


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Practicals

Scheme of Examination

Min. Pass Marks: 18

Max. Marks: 50

	Bifurcation of Marks	Time
Written test	24	3 hrs.
Field Survey and Viva voce	10+04	2½ hrs.
Record and Viva voce	08+04	

N.B. 1. There shall be 6 questions in written paper selecting at least two questions from each section. Candidates are required to attempt 3 questions selecting 1 question from each section. All question carry equal marks. Each practical batch of 30 students will be allotted a teaching of 4 hours per week for practicals.

SYLLABUS

Section A

Definition and types of scale: simple, comparative, diagonal.

Graph: line graph, bar graph, combined line and bar graph, hythergraph and climograph; climatograph, water budget graph, wind rose.

Weather maps: weather symbols, representation of atmospheric features, interpretation of Indian daily weather maps (july and january), weather instruments.

Section B

Methods of showing different relief features: hachures, hill shading, bench mark, spot heights, formlines, contours and drawing of cross sections (conical hill and plateau, types of slopes, valleys, ridge and saddle, gorge, waterfall and rapids, escarpment, lake, spur, col, meanders and cliff)

Profiles- serial, superimposed, projected and composite.

Section C

Surveying : meaning, classification and significance.

Chain and tape surveying: open and closed traverse.

Recommended Readings:

चौहान, पी.आर. 2008: प्रयोगात्मक भूगोल। वसुन्धरा प्रकाशन, गोरखपुर।

Singh, L.R. 2006: Practical Geography. Prayag Pustak Publisher, Allahabad U.P.

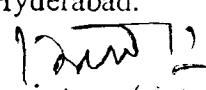
Monkhouse, F. J. and Wilkinson, F.J. 1985: Maps and Diagrams. Methuen, London.

Singh, R.L. and Singh Rana P.B. 1991: Elements of Practical Geography. Kalyani Publishers, New Delhi.

Sarkar, A. K. 1997: Practical Geography: A Systematic Approach. Orient Longman, Kolkata.

शर्मा, जे.पी. 2011: प्रयोगात्मक भूगोल की रूपरेखा। रस्तोगी पब्लिकेशन, मेरठ।

Venkatrameiah, C. 1997: A Text Book of Surveying. University Press, Hyderabad.


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23 STATISTICS

Scheme:	Duration	Max Marks		Min. Pass Marks	
		Sc.	Arts	Sc.	Arts
Paper- I	3 hrs.	50	65	18	24
Paper-II	3 hrs.	50	65	18	24
Practical	3 hrs.	50	70	18	24
	Total	150	200	54	72


Note : In each question paper, 10 (ten) questions will be set having 2 (two) from each unit. Candidates have to answer five questions in all, taking not more than one from each unit.

Paper- I Probability Theory

Unit I. Important concepts of Probability: Random experiment: Trial, Events and their types. Definitions of probability. Sample point and sample space. Axiomatic Approach of Probability and its properties. Addition and Multiplication theorems of probability. Conditional Probability. Bayes Theorem and its Applications (Simple Problems Only). 18 hours

Unit II. Random Variable: Definition with illustrations, Types of Random Variables. Probability Mass Function, Probability Density Function. Distribution Function and its properties. Joint Probability Distribution, Marginal and Conditional Probability Distributions and density functions (Continuous and Discrete Cases). Chebychev's Inequality and its applications. 18 hours

Unit III. Mathematical Expectation: Expectation of a random Variable and its simple properties. Addition and Multiplication Theorems of Expectation. Conditional Expectation. Definition of Variance and Covariance and properties. Raw and Central Moments. Moment Generating Function and their properties. 18 hours


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Syllabus B.A. Part-I

Unit IV. Univariate Discrete Distributions and their properties: Bernoulli Distribution, Binomial Distribution, Poisson Distribution, Geometric Distribution. Idea of Hyper-geometric and Negative Binomial Distribution. 18 hours

Unit V. Univariate Continuous Distributions and their properties : Rectangular Distribution, Normal Distribution, Idea of Exponential Distribution, Cauchy Distribution, Gamma Distribution, Beta Distribution. 18 hours

References

1. Bhatt, B. R. Srivenkatramana, T and Rao Madhava K. S. (1997): Statistics: A, Beginner's Text, Vol. II, New Age International (P) Ltd., New Delhi.
2. Goon A.N., Gupta M. K., Das Gupta B. (1991) : Fundamentals of Statistics, Vol, II, World Press, Calcutta.
3. Kapoor V.K. & Gupta S.C. : Fundamentals of Mathematical Statistics, Sultan Chand and Sons, New Delhi.
4. Mood A.M., Graybill F. A. and Bose, D. C. (1974) : Introduction to the Theory of Statistics, McGraw Hill.

Additional References

1. Hoel P.G. (1971) : Introduction to Mathematical Statistics, Asia Publishing House.
2. David, S (1996) : Elementary Probability, Oxford Press.
3. Cooke, Cramer and Clarke: Basic Statistical Computing, Chapman and Hall.
4. Meyer P.L. (1970) : Introductory Probability and Statistical Applications. Addison Wesley.

Paper II : Descriptive Statistics

Unit I. Types and Presentation of Data: Concepts of a statistical population and data. Qualitative and Quantitative data; discrete and continuous data; frequency and non-frequency data. Geographical & Chronological Data. Primary Data and Secondary Data. Tabular presentation of data-Construction of tables, Types of tables. Frequency distribution - Discrete, grouped, continuous and cumulative Graphical presentation of data- Histogram, frequency polygon, fre-

quency curve and ogives.

18 hours

Unit II. Statistical analysis of Quantitative Data: Different types of scales-nominal, ordinal, intervals and ratio, Univariate Data-Measures of central tendency, dispersion, moments and its computation from data. Absolute and relative measures of skewness and kurtosis based on quintiles and moments. Sheppard's Correction for moments (without Proof).

18 hours

Unit III. Curve fitting and Theory of Attributes: Principle of least squares, fitting of straight line, parabola and curves reducible to straight line (exponential and power curve). Class frequency, order of a class frequency, ultimate class frequency, consistency of data, independence and association of attributes. Various measures of association.

18 hours

Unit IV. Statistical Analysis of Bivariate Data: Correlation analysis-scatter diagram, Karl-Pearson's coefficient of correlation and its properties. Correlation of bivariate frequency distribution, Spearman rank correlation. Regression analysis-Fitting of regression lines, regression coefficients and their properties.

18 hours

Unit V finite Differences: Operators E , Δ , ∇ , their relationship and properties, factorial notation. Difference table fundamental theorem of finite differences. Estimation of one and to missing terms. Meaning of interpolation and extrapolation. Newton's forward and backward formulae for equal intervals, Lagrange's Formula and numerical problems.

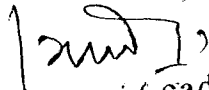
18 hours

References

1. Bhatt B. R. Srivenkatramanna T and Rao Madhava K. S. (1997): Statistics: A Beginner's Text, Vol. I, New Age International (P) Ltd., New Delhi.
2. Croxton F.E., Cowden D. J. and Kelin S (1973) : Applied General Statistics, Prentice Hall of India, New Delhi.
3. Goon A. M., Gupta M. K., Das Gupta B. (1991) : Fundamentals of Statistics, Vol. I, World Press, Calcutta.

Additional References

1. Anderson T.W. and Sclove S.L. (1978): An Introduction to the Statistical Analysis of Data.
2. Cooke, Cramer and Clarke : Basic Statistical Computing. Chapman and Hall.


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Syllabus B.A. Part-I

3. Mood A.M. Graybill F.A. and Bose D.C. (1974) Introduction to the theory of statistics. Mc Graw Hill New York.
4. Spiegel, M. R. (1967) : Theory & Problems of Statistics. Schaum's Publishing Series.

Paper III. Practical Paper: -

1. Exercise on mathematical expectations and finding Mean, Variance, Skewness and kurtosis of Univariate probability distributions.
2. Fitting standard univariate discrete and continuous probability distribution.
3. Computation for Marginal and Conditional Distributions.
4. Presentation of data through Frequency Table, and Graphs.
5. Calculation of Measures of Central tendency, Dispersion, moments and Skewness and Kurtosis.
6. Computation of Correlation Coefficient of bivariate data and bivariate frequency distribution table.
7. Regression of two variables.
8. Fitting of curves by the least square method.
9. Computation of Spearman's rank correlation.
10. Construction of Difference table.
11. Interpolation Problems based on Newton and Lagrange's Formulae.


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24 - APPLIED STATISTICS

Scheme:	No. of hrs. per week	Max Marks		Min. Pass Marks	
		Sc.	Arts	Sc.	Arts
Paper-I	3 hrs.	50	65	-	24
Paper-II	3 hrs.	50	65	-	24
Paper-III (Practical)	4 hrs.	50	70	18	24
Total	10 hrs.	150	200	54	72

Note: In each question paper, 10 (Ten) questions will be set having 2 (Two) from each unit. Candidates have to answer five questions in all taking not more than one from each unit.

Paper I : Probability Theory

Unit I: Functional relationship between two variables, Polyno-


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mials, exponential, logarithmic & Binomial functions and their expansions. Infinitesimal quantity. Idea of permutation and combination. Notion of limit. Rules for finding limits. Continuity, Differential Coefficient and its physical interpretation as a rate measure. Standard results for differential coefficients of x^n , e^x , $\log x$ etc. (without proof). Rules for differentiation of sum, difference, product and quotient and function of a function (without proof). 18 hours

Unit II. Maxima and Minima. Integral Calculus: Definition and meaning of integration. General laws of integration, Integration of a continuous function. Definite integration. 18 hours

Unit III. Important Concepts of Probability: Random Experiment, Trial, Events and their types. Classical and Statistical definitions of Probability. Sample point and sample space. Axiomatic Approach to Probability and its properties. Addition and Multiplication theorems of probability. Conditional Probability. Baye's Theorem and its Applications (Simple Problems only). Chebychev's Inequality and its applications. 18 hours

Unit IV. Random Variable: Probability Mass Function, Probability Density Function. Distribution Function, Joint Probability Distribution, Marginal and Conditional Probability distribution (Continuous and Discrete case). 18 hours

Unit V. Mathematical Expectation: Expectation of a random Variable and its properties. Addition and Multiplication Theorems of Expectation. Conditional Expectation. Definition of Variance and Covariance, Moments, Skewness and Kurtosis. Moment Generating Functions and their simple properties. Definitions of Binomial Distribution, Poisson Distribution, Normal Distribution, Gamma Distribution, Beta Distributions their mean, Variance & mgf. 18 hours

References:

1. Bhatt B.R., Srivenkatramanna T. And Rao Madhava K.S. (1997): Statistics-A Beginner's Text, Vol-II, New Age International (P) Ltd.
2. Goon A.M., Gupta M.K., Das Gupta B. (1991): Fundamentals of Statistics, Vol-II, World Press, Kolkata.
3. Kapoor V.K. & Gupta S.C. : Fundamentals of Mathematical Statistics, Sultan Chand and Sons, New Delhi.

Syllabus B.A. Part-I

4. Mood A.M. Graybill F.A. Bose D.C. (1974): Introduction to the theory of statistics, McGraw Hill

Additional References:

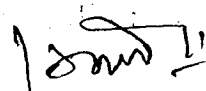
1. Hoel P.G. (1971): An Introduction to Mathematical Statistics, Asia Publishing House.
2. David S. (1996): Elementary Probability., Oxford Press.
3. Cooke, Cramer and Clarke: Basic Statistical Computing, Chapman and Hall.
4. Meyer P.L. (1970): Introductory Probability and Statistical Applications. Addison Wesley.

Paper II : Descriptive Statistics

(The course contents are same as that of Subject-Statistics)

Paper III. Practical Paper:

1. Exercise on mathematical expectations and finding Mean, Variance, Skewness and kurtosis of Univariate probability distributions.
2. Fitting standard univariate discrete and continuous probability distribution.
3. Computation for Marginal and Conditional Distributions.
4. Presentation of data through Frequency Table, diagrams and Graphs.
5. Calculation of Measures of Central tendency, Dispersion, Skewness and Kurtosis.
6. Computation of Correlation Coefficient of bivariate data and bivariate frequency distribution table.
7. Regression of two variables.
8. Fitting of curves by the least square method.
9. Computation of Spearman's rank correlation.
10. Construction of Difference table.
11. Interpolation Problems based on Newton and Langrange's Formulae.


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25 PSYCHOLOGY

SCHEME OF EXAMINATION :

Faculty	Max. Marks	Min. Passing Marks
Arts	200	72 (Th.54 Pr.18)
Science	150	54 (Th.36 Pr.18)

Paper	Nomenclature	Duration	Max. Marks	
			Arts	Science
I	Basic Psychological Processes	3 Hrs.	75	50
II	Social Psychology	3 Hrs.	75	50
III	Practicals	3 Hrs.	50	50

NOTE :-

1. There will be three papers in Psychology. It will be common for Arts and Science. Each paper will be of 3 hours and would contain the entire course content of the paper.

Section-A will contain 10 questions of 20 words each. Each question will be of 1.5 marks for Arts students and 1 mark for Science students. Thus, Part-A will be of 15 marks for Arts students and of 10 marks for Science students.

Section-B will contain 7 questions of 50 words each, out of which students are required to attempt 5 questions. Each question will be of 3 marks for Arts students and of 2 marks for Science students. Thus, Part-B will be of 15 marks for Arts student and of 10 marks for Science students.

Section-C will contain 3 long questions each with internal choice. Each question will be of 15 marks for Arts students and 10 marks for Science students. Thus, Part-C will be of 45 marks for Arts students and 30 marks for Science students.


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For clarification the distribution of marks is tabulated as below:-

ARTS			
Section	No. of Questions	Marks	Total
A	10	1.5	15
B	5 (Out of 7)	03	15
C	3 (with internal choice)	15	45
Total Marks			75

SCIENCE			
Section	No. of Questions	Marks	Total
A	10	01	10
B	5 (Out of 7)	02	10
C	3 (with internal choice)	10	30
Total Marks			50

2. Use of simple calculator will be allowed for statistical portions of all papers.

Paper-I

Basic Psychological Processes

Section-A

1. Introduction: Definition and Goals of Psychology; History- Structuralism, Functionalism, Behaviourism, Gestalt and Psychoanalysis; Modern Perspectives- Biological, Psychodynamic, Behavioural, Cognitive, Humanistic, Evolutionary and Socio-cultural; Methods- Observation, Case Study, Surveys and Experimental.
2. Biological Basis of Behaviour: The Nervous System-Structure and Functions of Neuron. Structure and Functions of Central Nervous System and Peripheral Nervous System
3. Sensation and Perception: Sensation- Meaning, Sensory Receptors, Sensory Thresholds, Habituation and Sensory Adaptation. Perception- Meaning, Constancies- Size, Shape and Brightness, Gestalt Principles, Factors Influencing Perception.

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Section-B

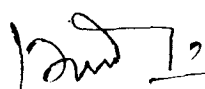
4. Learning : Definition and Theories- Classical Conditioning, Operant Conditioning, Cognitive Learning, Observational Learning.
5. Memory: Definition; Encoding, Storage and Retrieval Processes; Models- Level of Processing, Parallel Distributed Processing and Information Processing- Sensory, Short Term and Long Term Memory; Forgetting- Nature and Causes.
6. Motivation and Emotion : Motivation - Meaning and Approaches- Instinct, Drive-reduction, Arousal, Incentive and Humanistic. Emotion- Elements: Physiology, Expression and Subjective Experience; Theories- Cannon-Bard, James-Lange, Schachter-Singer, Opponent-Process.

Section-C

7. Cognition : Thinking- Mental Imagery and Concepts; Problem Solving- Trial and Error, Algorithms, Heuristics, Insight; Barriers to Problem Solving.
8. Intelligence : Definition and Theories- Spearman, Guilford, Cattell, Sternberg, Gardner; Meaning of IQ; Intelligence Tests.
9. Personality: Definition; Type Theories and Trait Theories - Allport, Cattell, McCrae and Costa; Personality Assessment- Self-report Inventories, Projective Tests and Behavioural Assessments.

Books Recommended:

- Baron. R.A. (2003). Psychology. Allyn and Bacon. New Delhi Prentice Hall India.
- Gerrig, R.J. and Zimbardo, P.G. (2005). Psychology and Life. New Delhi. Pearson Education.
- Ciccarelli, S.K. and Meyer, G.E. (2006). Psychology. New Delhi, Pearson Education.
- सिंह. अरुणकुमार (2002). आधुनिक सामान्य मनोविज्ञान. नई दिल्ली, मोतीलाल बनारसीदास।


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Paper-II

Social Psychology

Section-A


1. Introduction : Meaning, Nature, Scope and Goals of Social Psychology. Methods of Social Psychology: Experimental and Non-Experimental Methods.
2. Social Perception and Person Perception: Social Perception- Meaning and Nature; Perceptual Defense, Perceptual Accentuation and Subliminal Perception. Person Perception: Meaning and Nature, Role of Non-verbal Cues; Perceivers' Characteristics and Role of Ongoing Interaction.
3. Attitudes: Nature, Functions, Formation, Change and Measurement.

Section-B

4. Prejudice and Discrimination: Nature and Origin; Reduction of Prejudice and Discrimination.
5. Interpersonal Attraction: Proximity and Affective basis, Acquaintance and Need to Affiliate; Effects of Observable Characteristics, Similarity and Mutual liking.
6. Leadership : Definition and Functions; Types of Leadership. Trait, Situational and Contingency Approaches.

Section-C

7. Communication: Meaning, Nature and Types : Verbal and Non-verbal; Barriers in Communication.
8. Pro-Social Behaviour: Personal, Situational and Socio-Cultural Determinants. Explaining Pro-Social Behaviour: Empathy, Altruism Hypothesis, Negative-State Relief Model, Emphatic-Joy Hypothesis and Genetic-Determinism Model.
9. Aggression and Social Problems: Aggression- Theories, Determinants, Prevention and Control; Social Problems -Meaning and Nature; Types of Social Problems - Poverty, Deprivation, Population Explosion, Economic Development; Solutions to Social Problems.


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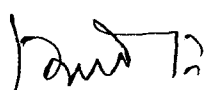
Books Recommended:

- Baron, R.A. and Byrne.D. (1998): Social Psychology, New Delhi, Prentice Hall.
- Myers, David G (1994): Exploring Social Psychology, New York; McGraw Hill
- अरुण कुमार सिंह (2002) : समाज मनोविज्ञान की रूपरेखा' मोतीलाल बनारसीदास, दिल्ली।

Paper-III

Practicals

1. Human Maze Learning
2. Measurement of Intelligence (Performance Test)
3. Experiment of Memory(Meaningful and Non-sense Syllables through Memory Drum)
4. Experiment on Figure Ground Reversal
5. Measurement of Emotions by Facial Expression
6. Measurement of Attitude
7. Measurement of leadership
8. Measurement of Aggression
9. Measurement of Altruism
10. Assessment of Social Support


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26 राजस्थानी

परीक्षा योजना

न्यूनतम उत्तीर्णांक : 72

प्रथम प्रश्न-पत्र

द्वितीय प्रश्न-पत्र

समय

3 घंटे

3 घंटे

पूर्णांक

200

100

100

प्रथम प्रश्न-पत्र-अंक विभाजन

1. प्रथम प्रश्न-पत्र में पांच प्रश्न होंगे। कुल 100 अंकों का प्रश्न होगा।
2. प्रत्येक पाठ्यपुस्तक से कम से कम एक-एक व्याख्या करनी होगी। (3×12=36)
3. दोनों पुस्तकों में प्रत्येक से एक-एक आलोचनात्मक प्रश्न होगा। कुल तीन प्रश्न।
(3×15=45)
4. अंतिम प्रश्न निम्नलिखित तीन भागों में विभक्त होगा—
(क) राजस्थानी भाषा में अनुवाद—7 अंक

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Syllabus B.A. Part-I

(ख) हिंदी से राजस्थानी भाषा में अनुवाद—7 अंक

(ग) राजस्थानी कहावतें अर्थ एवं प्रयोग—5 अंक

पाठ्य पुस्तकें :

1. राजस्थानी कहानियाँ—सम्पा. रावत सारस्वत, प्रेम जी प्रेम : प्रकाशक साहित्य अकादमी, रवीन्द्र भवन, नई दिल्ली। इस पुस्तक में से निम्नलिखित क्रम संख्या वाली 14 कहानियाँ 1, 9, 10, 12, 13, 14, 15, 16, 18, 20, 22, 23 तथा 28।

2. जयपुर की ज्योणार, ले. मदनमोहन सिद्ध (खण्ड एक से तीन) : प्रकाशक श्री सिद्ध हिन्दी प्रचारक कार्यालय जयपुर।

संदर्भ ग्रंथ

1. आधुनिक राजस्थानी साहित्य : प्रेरणा स्रोत और प्रवृत्तियाँ; लेखक डॉ. किरण नाहटा प्रकाशक चिन्मय प्रकाशन, चौड़ा रास्ता, जयपुर।
2. राजस्थानी गद्य साहित्य : उद्भव और विकास : लेखक डॉ. शिवस्वरूप अचल, प्रकाशक : शार्दूल राजस्थानी रिसर्च इंस्टीट्यूट, बीकानेर।
3. राजस्थानी गद्य शैली का विकास : डॉ. रामकुमार गर्वा, प्रकाशक देवनाम प्रकाशन, जयपुर।

राजस्थानी द्वितीय प्रश्न-पत्र-राजस्थानी काव्य

अंक विभाजन—इस प्रश्न-पत्र में पाँच प्रश्न होंगे।

1. प्रत्येक पुस्तक से एक-एक व्याख्या। कुल तीन व्याख्या। (3×12=36)
2. प्रत्येक पुस्तक से एक-एक आलोचनात्मक प्रश्न।
(कुल तीन प्रश्न) (18+18+16=52)
3. अलंकार : वैयाण सगाई, उपमा, रूपक, उत्प्रेक्षा यमक, श्लेष।
4. छंद : दूहो, सोरठो, छप्पय, वेलियो।

संदर्भ ग्रंथ :

1. प्राचीन काव्यों की रूपक परम्परा-सम्पादक अमर चंद नाहटा, प्रकाशक भारतीय विद्या मंदिर शोध प्रतिष्ठान, बीकानेर।
2. अलंकार पारिजात—नरोत्तमदास स्वामी।
3. रघुनाथ रूपक गीता रो—महतावचन्द खारेड, प्रकाश नागरी प्रचारिणी सभा वाराणसी।
4. राजस्थानी साहित्य—एक परिचय प्रकाशक नवयुग ग्रंथ कुटीर, बीकानेर।

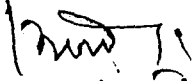

27 SHEEP AND WOOL

(To be offered by the collegiate students of Shri B.D. Todar College, Lakshmanagarh, Sikar only)

Scheme :

Min. Pass Marks 48

Max. Marks 132


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Syllabus B.A. Part-I

Paper-I	3 hrs. duration	Max. Marks 66
Paper-II	3 hrs. duration	Max. Marks 66
Min. Pass Marks 24	4 hrs. duration	Max. Marks 68
Practical		

Paper-I : Elements of Sheep Husbandry

Livestock population in Rajasthan, India and place of sheep in rural economy of Rajasthan with particular reference to the area.

Historical background of the origin of sheep. Asiatic classification of the world sheep. Important breeds of Indian sheep particularly of Rajasthan.

Regionalisation of sheep in India.

Anatomical and Physiological aspects- Salient features of the skeletal, digestive, reproductive, respiratory, endocrine system etc.

Physiological : Carbohydrate, Protein, Fat-metabolism.

Sheep : Management of flocks, sheeppcare (different stages), housing, feeding etc.

Paper-II : Elementary Sheep Production

General Management : Counting, docking, castration, branding, tagging, tattooing, weaning, aging, classifying, cutting.

Breeding Management : Care of pregnant ewes, new born lambs, and breeding rams.

Shearing Management : Time of shearing, washing, grading, packing, storage, shearing shed equipment and management.

Health Management : Drenching, dipping, vaccination, spraying, mouth wash, foot bath, segregation, care of sick sheep.

Farm Records : Feeding, breeding, health, production and their maintenance.

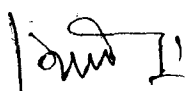
Wool Science : Definition of wool terms 'primary grading' physical and chemical properties of wool.

Types of Fibre : Comparison wool fibre with hair and textile fibre.

Practical :

Syllabus : M.in Pass Marks-24 Max pass M. 68

I. Recognition of different breeds of sheep, local and state of Rajasthan, with reference to salient features of difference and utility of their products.


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Syllabus B.A. Part-I

2. Study of sheep skeleton.
3. Salient features of digestive organs, respiratory and reproductive organs (male and female)
4. General Management of sheep : Housing (different types of housing, floor area required etc.) Open and closed by stem of housing paddock and sheep. Yards, housing of different categories of sheep.
5. Farm equipments viz. feeding and watering thoughts shearing machines, weighting machines, hoof-paring, castrating equipment drenching and dosing equipments, branding and tagging equipments etc.
6. General sheep management practices : Identification of animals, ear-tagging etc. Handling and securing of sheep, again by dentition, tagging hoof paring crutching and castration of sheep. Drenching, dosing and dipping of sheep, washing and shearing (hand shearing). Preparation of sheep (both male and female) for breeding purposes. Natural and artificial breeding of sheep viz. use of breeding harness. Collection and insemination semen.
7. Lambing practices and rearing of young ones; Care and management of ewes at lambs and growing stock. Use of foot-bath and mouthwash.
8. Wool Science : Physical Properties of wool including microscopic study comparing it with hair and artificial fibers, Primary grading of wool; Microscopic study of fibers.

20. LIV STOCK AND DAIRYING

(To be offered by the Collegiate Students of Shri Pragya Mahavidyalaya, Bajaj Nagar and Government College, Rajgarh).

Scheme :

Min. Pass Marks 48		Max. Marks 132
Paper-I	3 hrs. duration	Marks 66
Paper-II	3 hrs. duration	Marks 66
Practical		
Min. Pass. Marks 24	4 hrs. duration	Marks 68

Paper-I : Principles of Animal Husbandry and Livestock Management

1. Livestock population of India with special reference to Rajasthan. Distribution of different categories of livestock according to

Syllabus B.A. Part-I

the agroclimatic conditions of the state.

2. Contribution of animal and animal products in the economy of Rajasthan.

3. Characteristics of the following breeds of Livestock. Cattle Tharparker, Hariana, Gir, Nagauri, Rathi, Mewati, Shahiwal, Melvi, Jirsey, Hostein, Freisian, Red dane.

Buffallows—Murrah, Surti, Mehsana.

Goats—Sirohi, Alwar, Barbari, Jamunapuri, Beotal, Marwari.

Sheep—Sonodi, Chokia, Bikaneri, Marino, Rambouilet Camel-Rid Dmeru.

Poultry—Phode Island Red, White, Leg Horn, Wyte Roe.

4. Outline of anatomy of cattle and buffallows. Body Temperature, respiration and pulse rate.

5. Housing of Livestock, location, site sign construction. Arrangement / Groupings of different buildings.

6. General care of the animals grooming exercise bathing observation of oestrus, service care during pregnancy and at parturition, drying off.

7. Care of newly born calf. Marking, dooming, castration.

8. Important points for the management of bulls, goat, sheep and poultry.

9. Livestock farm equipment, sanitary requirements, disposal of animal water.

10. Familiarity with common ailments and diseases of farm animals wounds, Navel ill, prolapse of natural and vagina; bloat, impaction, scour phenomena, mastitis, milk fever. Anthrax, FMD; HS, RP, Black quarter, Enterotoximeia, diarrhoea. Common external and internal parasites.

11. Maintenance of farm records.

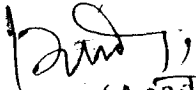
12. Government Assistance and facilities available for Livestock.

Paper-II Principles of Feeding and Breeding Livestock

1. Digestive system of ruminants and its peculiarities.

2. Physiological role of good nutrients, their digestion, importance of scientific feeding.

3. Nutritional requirement of farm animals for different purposes.


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Syllabus B.A. Part-I

4. Common feeds and fodder and their nutritive value, Characteristics of ideal ration.
5. Feeding pregnant, lactating animals, breeding bulls and bullocks.
6. Production of different types of grasses and forge, making of hay and silage.
7. Premuration of chease balanced ration for milk production.
8. Feeds supplements and additives.
9. Importance of scientific breeding system of breeding.
10. Male and female reproductive system, development of organs and their function, role of economic glands.
11. Signs of heat and time of breeding.
12. Natural service and artificial insemination, infertility in livestock.
13. Diagnosis of Pregnancy.
14. General hints on selection, score car, performance, pedigree and history sheets, culling.
15. Maintenance of breeding records.

Practicals

Min. Pass Marks 24 4 hrs. duration Max. Marks 68

1. Study of external parts of animal, handling and securing of animals hoof training.
2. Castration, dehorning, making and throwing.
3. Determination of body, weight and age.
4. Recording of temperature, pulse and respiration of animals.
5. Administration of medicines through different routs.
6. Communication of ration, blending food preparation of hay and silage.
7. Diagnosis of common ailments and first aid.
8. Collection of seman and artificial in semination.
9. Judging of animals on the basis of score card.
10. Washing dairy utensils, milking of animals.
11. Leaning and disinfection of dairy sheds.
12. Working out the building requirements for different animals.

Min. Pass Marks = 72

Paper - I

Paper - II

Max. Marks = 200

Marks = 100

Marks = 100

Note: The paper will contain nine questions having three questions in each section. Candidates are required to attempt five questions in all selecting atleast one question from each section.

Paper I- Introduction to Social Anthropology

Unit-I

History, Meaning and Scope of Anthropology.

Branches of Anthropology:- (a) Social-Cultural Anthropology (b) Physical Anthropology (c) Archaeological Anthropology. (d) Linguistic Anthropology

Definition and subject matter of Social Anthropology, Relationship of Social and cultural Anthropology with Sociology, Psychology, History, Economics and Political Sciences

Unit-II

Basic Concepts: Band, Tribe, Culture, Society, Community, Group, Institution, Human Institutions: Family, Marriage, Kinship, Religion.

Development and Change

Unit - III

Techniques and Methods: field work and Survey Research

Antiquity and origin of Language, Structure of language, relation in Language, Culture and Individual.

Readings Books

Beattie John. 1964, Other Cultures: Aims, Methods and Achievements in Social Anthropology, London, Routledge and Kegan Paul Ltd.

Eriksen Thomas H. and Nielsen S. Finn. 2008. A History of Anthropology, Jaipur, Rawat Publications.

Fox Robin. (1983). Kinship and Marriage, Cambridge, Cambridge University Press.

Hasnam Nadeem. 1962. General Anthropology, New-Delhi, Jawahar Publishers & Distributors.

Herskovits Melville Jean, 1948, Man and His works, The Science of Cultural Anthropology, New York, A.A. Knopf.

Madan EN, and Majumdar D.N., 1957, An Introduction to Social Anthropology, Bombay, Asia Publishing House (Hindi & English)

Mair Lucy, 1965, An Introduction to Social Anthropology, New Delhi, Oxford University Press.

Notes and Queries on Anthropology, 1951, A Committee of the Royal Anthropological Institute of Great Britain and Ireland, London, Routledge and Kegan Paul Ltd

Paul Bohannan, 1963, Social Anthropology, New York, Mac Millan.

Srivastava ARN, 1992, What is Anthropology, Calcutta, K.K. Publication.

जान शोभिला, 1965, भारत में परिवार विद्या और जाति पद्धति, जयपुर रावत पब्लिकेशनस.

द्वय श्यामाचरण, 1993, मानव और संस्कृति, नई दिल्ली राजकमल प्रकाशन प्रा. लि. ।

राजेश हरिकृष्ण, 2002, मानवशास्त्र विश्वकोष, जयपुर रावत पब्लिकेशनस ।

Paper- II Cultural Regions in Rajasthan

UNIT-I

Physiography of Rajasthan, Integration of Rajasthan, Cultural Regions, Marwar, Mewar, Dhoondhar, Vagad, Mewat, Haroti, Brij.

UNIT-II

Concept of Tribe, Ethnography of tribal culture in Rajasthan: Mina, Bhil, Garasia, Saharia.

UNIT-III

Places of religious importance: Pushkar, Ajmer, Nathdwara, Ramdevji, Tejaji, Kailadevi, Goga medi, Cult of Bishnoi.

Folk fairs and festivals, Teej, Gangour.

Bhakti Movement and Peasant Movement.

List of Books

B.R. Chauhan, 1967, A Rajasthan Village, Vir Publishing House, Delhi

Doshi S.L. and N.N. Vyas, 1992, The Sahariya in Tribal Rajasthan, Udaipur Sunshine on the Aravalli, Udaipur, Himanshu Publications.

Kapil F.K., 1999, Rajputana States (1817-1950), Jodhpur, Book Treasure

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Sharma S.K. and Sharma Usha. (eds.), 2000. History and Geography of Rajasthan. New Delhi. Elegant Printers



Singh K.S., 1998. People of India: Rajasthan. Mumbai. Popular Prakashan Pvt. Ltd., Vol. XXXVIII (part one and Two)

Fod James, 1987. (Repr.) Annals and Antiquities of Rajasthan. Delhi. Motilal Banarasi Das, 3 Vol

बुधप्रकाश प्रकाश, 1993. भारत के आदिवासि सत्यपुर एसा पब्लिशिंग इंडस्ट्रीज्दरसे।

सत्यम से सन्दर्भत, 2000. राजस्थानी लोक साहित्य का संस्करण, जयपुर राजस्थानी ग्रन्थगार,

आइएम सीआर 2002. राजस्थान लोक संस्कृति का संस्करण, नई दिल्ली नेशनल बुक ट्रस्ट, (अनुमोदित मर्मेश कृष्ण आ एच राजेश कुमार आ)


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30 DRAMATICS

Note : An applicant shall be allowed to offer Dramatics as one of his/her optional subject only after having been declared successful in the audition text given by the Head of Department of Dramatics of the Institution concerned in oral given exercises and/or written form. The audition test shall be based on the applicants aptitude for acting, speech, Sense of Rhythm, Music and general awareness for theatre.

Scheme :

Theory	Duration	Max. Marks	Min. Pass Marks
Paper I	3 hours	50	18
Paper II	3 hours	50	18
Practical			
Paper I	4 hours	50	18
Paper II	4 hours	50	18

Theory :

B.A. Part - I (Drama) Exam. 2014-15

Paper I : History of World Theatre

- I. Evolution of Theatre as Art Form
- II. Influences and Relationship with other art forms
- III. History of World Theatre with special reference to

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Syllabus B.A. Part-I

- a. Greek Theatre
- b. Medieval Theatre
- c. Elizabethan Theatre
- IV. Renaissance Theatre and other art forms
- V. Origin and development of Indian Theatre with reference to :
 - a. Pre-Vedic period
 - b. Post-Vedic Period (up to Natyashastra)
- VI. Introduction to Yoga and its importance for theatre arts

Books Recommended :

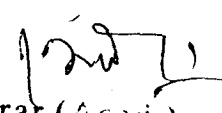
1. Natyakala Ke Teen Sahastra Varsh - Sheldon Chenny (Tr. Sitaram Chaturvedi)
2. History of Theatre- Oscar Brockett

Paper-II : Modern Indian and Regional Theatre

- I. Emergence of Modern Indian Drama
- II. Various Social Movements and their impact on theatre with reference to :
 - a. Theosophical Society
 - b. Brahmo Samaj
 - c. Arya Samaj
- III. Indian Freedom Struggle and its impact on theatre
- IV. Growth of Commercial Theatre in India with reference to Parsi Theatre.
- V. People's Theatre Movement
- VI. Post Independence Period
 - a. Study of major playwrights : Mohan Rakesh, Dharmavir Bharti, Vijay Tendulkar, Badal Sarcar, Girish Karnad.
 - b. Study of major organisations and institutions : Sangit Natak Akademies, National School of Drama and others.
 - c. Basic topographical study of theatre auditorium.
- VII. Study of major regional and folk theatre forms and styles: Nautanki, Khyal, Tamasha, Yakshagan, Kuduyattam.

Books Recommended :

- I. Bhartiya Rangmanch Ka Udbhav Evam Vikas- Dashrathi Ojha
- II. Bhartiya Rangmanch Ka Itihas- Dr. Agyat


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Syllabus B.A. Part-I

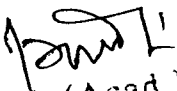
- III. Bhartiya Lok Natya Parampara- Dr. Kapila Vatsyayan
- IV. Rand Darshan- Nemi Chand Jain

Practical- Paper I : Applied Theatre Practice

- I. Practice of 15 Yogic Asanas
- II. Practice of Mime and Movement Exercises
- III. Submission of workbook.

Practical- Paper II : Applied Theatre Practice

- I. Practice of Acting Improvisations
- II. Production of short plays
- III. Acting assignments


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B.A. part Ist Physical Education course shall consist of two theory paper carrying 60 marks each (Total 120 marks) and Practical examination carrying 80 marks (Two games & Sports 40 marks each). A candidate shall have to secure 36% mark separately in theory and practical to pass the examination.

Note: Each theory paper will have ten questions, two from each of the five units. Candidates are required to answer one question from each unit.

PAPER I
HISTORY OF PHYSICAL EDUCATION

Time 3 hours

Maximum Marks : 60
Minimum Pass Marks : 22

Unit- I

1. Definition of Physical Education: Need importance, Misconception about Physical Education.
2. Principles of Physical Education
3. Aims & objectives of Physical Education
4. Scope of Physical Education
5. Career option in Physical Education.

Unit- II

1. Physical Education in Ancient India (Before 1947).
2. Physical Education in India after 1947.
3. Impact of Britain & U.S.A. on Physical Education in India.

Unit- III

1. Physical Education and Sports training Institutions in India.
2. Sports Authority of India, Scheme & Function.
3. Rajasthan State Sports Council, Function, Aims & objective.
4. Arjuna Awards, Dronacharya Awards, Maulana Abdul Kalam Azad trophy. National Sports Scholarship. Dhyhan Chand and Guru Vashist, Rajiv Gandhi Khel Ratan.

Unit- IV

1. Modern Olympic Games: Start of Olympics,
2. Objectives of Olympic, olympic mascot.
3. Olympic Motto and flag.
4. Olympic Charter opening and Closing.
5. Indian Olympic Association, International Olympic Committee.
6. Ancient Olympic, differentiate Ancient and modern olympic.

Unit- V

1. Contribution of the growth of Physical Education by leaders & Movements.
2. National Physical Efficiency Drive.
3. All India council of Sports.
4. Turnverein Movement. Y.M.C.A. and Its contribution Physical Education in U.S.S.R. the spartakiad.
5. Contribution in India; G.D. Sondhi; Rajkumari Amrit Kaur; B.P.De Coubertin, Dr. P.M. Joseph; Shri H.C. Buck; Prof. Karan Singh; Prof. Ajmer Singh; Asian Games, SAF Games, National Games, Winter Olympics, Para Olympic.

Books Recommended:-

1. Ajmer Singh etc. Basis of Physical education, Health & Sports B.A.Pt. I, Kalyani Publication Ludhiana
2. Ajmer Singh etc. Basis of Physical education, Health & Sports (B.A.Pt. II), Kalyani Publication Ludhiana
3. Ajmer Singh etc. Basis of Physical education, Health & Sports (B.A.Pt. III), Kalyani Publication Ludhiana
4. Ajmer Singh Aur Anya : Saririk Shiksha Swasthya evam Khelo ki Adhunik Pathyapustak B.A. Part I : Kalyani Publications Ludhiana
5. Ajmer Singh etc : Saririk Shiksha Swasthya evam Khelo ki Adhunik Pathyapustak B.A. Part II va III : Kalyani Publications Ludhiana
6. Sidhana Ashok Kumar : Saririk Siksha Sidhant, Manovigyan evam Itihas: Sriyansh Publications Jaipur
7. Kamlesh & Sangral: Saririk Siksha ke Sidhant va Itihas: Prakash Brothers Ludhiana
8. Vaishnav Rajendra Prasad: Saririk Siksha ka Sangthan va Vidhiyan: Sriyansh Publications Jaipur.

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Paper II
FOUNDATIONS OF PHYSICAL EDUCATION

Each theory paper will have ten questions, two from each of the five units. Candidates are required to answer one question from each unit.

Time 3 hours

Maximum Marks : 60
Minimum Pass Marks : 22

Unit-I

Biological Foundation

1. Heredity & Environment & its effect
2. Stages of growth & Development.
3. Principles of growth and development, factor effecting growth & development.
4. Different between growth & development, Different between male & female
5. Chronological, Anatomical, Physiological and Mental ages of individuals - their implications in developing and implementing Physical Education Programmes.
6. Adolescent problems and their management.

Unit- II

Psychological Foundations:

1. Meaning of psychology, Importance of Psychology for Teacher.
2. Importance and implications of psychological elements in physical education
3. Notions about mind and body and psycho-physical unity
4. Learning, Learning theories, Law of learning, transfer of learning.
5. Psychological factors effecting sports performance.
6. Personality, its dimension and type, Role of sports in personality development.

Unit- III

Philosophical Foundations:

1. Idealism and Physical education
2. Pragmatism and Physical Education
3. Naturalism and Physical Education
4. Existentialism and Physical education

Unit- IV

Physiological Foundations:

1. Respiratory system
2. Circulatory System
3. Muscles & type of Muscles.
4. General benefits of exercises
5. Benefit of exercise to the various systems.

Unit- V

Sociological Foundations

1. Physical Education and Sports as a need of the society
2. Sociological Implications of Physical Education and Sports
3. Physical activities and sports as a man's cultural heritage
4. Role of social institution in development of personality through Participation in games & sports.
5. Role of leadership in personality.

References :

1. Buchetr, Charles A. Foundations of Physical Education St. Louis : The C.V. Hosby company, 1986 Dollar 9.50
2. Williams Jesus Fering : The Principle of Physical Education. Philadelphia : W.B. Saunders Company 1964
3. Kamlesh M.L. Physical Edu. Facts & Foundations, P.D.Pub. Faridabad.
4. Ajmer Singh etc. Basis of Physical Education, Health and Sports (B.A. Pt. I,II,III): Kalyani Publications Ludhiana
5. Ajmer Singh etc. Saririk siksha swasthya evam khelo ki Adhunik Pathyapustak B.A. I : Kalyani Publications Ludhiana
6. Ajmer Singh etc. Saririk siksha swasthya evam khelo ki Adhunik Pathyapustak B.A. I, II, III : Kalyani Publications Ludhiana
7. Sidhana Ashok Kumar: Saririk Siksha Sidhant, Manovigyan evam Itihas: Sriyansh Publications Jaipur
8. Kamlesh aur Sangral: Saririk Siksha ke sidhant va Itihas: Prakash Brothers Ludhiana
9. Vaishnav Rajendra Prasad : SaririkSiksha ka Sangthan va Vidhivan: Sriyansh Publications, Jaipur

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THEORETICAL (GAMES AND SPORTS)

The practical examination shall be conducted by a panel of two examiners to be appointed by the University. A candidate shall be required to show his/her familiarity (Rules & Techniques) and to give his performance in the following:

1. Four period for theory
 - (i) Ist Paper
 - (ii) IIInd Paper
 2. Four period for practical work
 - (i) Athletics : two periods
 - (ii) Games : Two periods
- (This shall carry 80 marks)


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9. INDIAN HERITAGE IN RURAL HANDICRAFTS

Scheme	Max. Marks	Min. Pass Marks
1. Theory One Paper 3 hrs. duration	60	22
2. Practical	80	28
3. Submission	<u>60</u>	<u>22</u>
	<u>200</u>	<u>72</u>

Syllabus :

Paper I (Theory)

3 hrs. duration

Max. Marks 60

Min. Pass Marks 22

FUNDAMENTAL OF HANDICRAFTS

1. Theory of colours-pigments and light theory-hue circle, modifications of colour - after image values and colour harmony-practical applications.
2. Basic principles of line, form and space - their interrelationship.
3. Process of concept building - visual and structural relationships. Free hand drawing from nature study of different Indian motifs.
4. Introduction with local rural handicrafts. Brief study of the local handicrafts and various raw materials used for manufacturing them.
5. History of Indian handicrafts.

Note : The paper will contain 9 questions. Candidates are required attempt any five questions. Each question containing 12 marks.

Paper II (Practical)

5 hrs. duration

Max. Marks 80

Min Pass Marks 28

1. Tie and dye (bandhej)
2. Soft toys


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3. Folk paintings.
4. Folk sculptures

Submission Works Max. Marks 60 Min. Pass Marks 22

Note (1) : Submission work will be submitted to the head of the department of Rural Handicrafts of the college 15 days before the commencement of examination. The marks in the submission will be Awarded by the subject teacher (Internal). However the external examiner shall be empowered to review the work of submission in case there is a drastic difference between the Marks of the examination and submission.

Note (2) : Candidates should pass in theory as well as in practical paper Separately.

Books recommended

1. Heritage of Indian Art : V.S. Agarwal.
2. Handicrafts of India : T.M. Abraham
3. 5000 years of Arts & Crafts of India : Shanti Swaroop.

VOCATIONAL COURSE**33** COMPUTER APPLICATION

Scheme :	Min. Pass Marks	Max. Marks
Arts/Commerce	72 (Th. 47 Pr. 25)	200
Science	54 (Th. 36 Pr. 18)	150
Paper-I 3 hours duration	Computer Fundamentals and Introduction to IBM PC	Arts/Com. 65 Science 50
Paper-II 3 hours duration	Operating Systems and Business Data Processing	Arts/ Com. 65 Science 50
Paper-III Practical		Arts/Com. 70 Science 50

Paper I : Computer Fundamentals and Introduction to IBM PC

What is Computer ? An introduction. Uses of computers in modern society e.g. weather forecasting, census, oil exploration, speech recognition, banking, publishing, accounting, research etc.

Information concepts and processing - hardware, software- computer capabilities and limitations. Concept of files and directories.

Computer arithmetic and number systems. ASCH & EBCDIC character sets.

Elements of a computer processing system- hardware, software computer capabilities and limitations. Concept of files and directories.

Hardware features and use- CPU, I/O devices. Storage devices and media.

Introduction to networking, multiprocessing, time sharing, multi-tasking and real time computing.

Variety of hardware systems and features. Various types of computers available in market. Micro, Mini and Main frames, Supercomputers.

Evolution of personal computers, Commodore, Atari, Apple, IBM, PC, Basic block diagram of computer. Difference between personal and main frames- Simple operating system, Easy to use, Less Memory, Dedicated, Normally single user.

Syllabus B.A. Part-I

Introduction to microprocessors and associated computers. Timers, display controllers, DMA controllers.

Block diagram of IBM PC. Introduction to 8086 and 8088. Functional description of various modules and cards.

Boot process in IBM PC. System files. Self test.

Various types of displays and other peripherals used in IBM PCs.

Disk Operating System - Introduction. Batch files.

Configuration files. COM, EXE, SYS, BIN, and TXT files. Introduction to programming in BASIC. Development of programs in Q. BASIC. Use of graphics facilities using Basic.

Diagnostics for IBM PC. Use of Norton Utilities and other packages for undeleting files and other system maintenance jobs.

Advance version of IBM and compatibles.

Paper II : Operating Systems and Business Data Processing

Introduction to various categories of softwares. Operating system and its functions. Interaction of operating system with hardware and user programs.

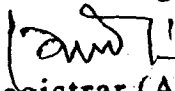
Various components of operating system with reference to DOS. Single user operating system. Task loader. Memory management.

File management, Directory structure in DOS. Moving, renaming, copying, deleting and undeleting files under DOS.

Practical

Visit to computer Lab., Introduction to various components of a computer. A simple documentation preparation and printing. Usage of printer and other components.

Physical inspection of IBM PC and internal cards. Introduction to nomenclature (COM1, COM2, etc.) Writing batch files for various purposes. Modifying config. sys files. Creating RAM Disk. Diagnostics on IBM PC. Controlling PC hardware using BASIC Programs.


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