

Raj Rishi Bhartrihari Matsya University, Alwar



Syllabus

**Three Years / Four Years U. G. Program in
Arts & Science**

B.A/B.Sc

Semester -I & II

Subject :- Geography

EXAMINATION 2023-24

RAJ RISHI BHARTRIHARI MATSYA UNIVERSITY, ALWAR
SEMESTER WISE PAPER TITLES WITH DETAILS

Three / Four Year U.G. Programme in Arts/ Science
 Subject: Geography

S. No.	Level	Semester	Type	Title	Credits				Contact Hours
					L	T	P	Total	
1.	5	I	MJR	GEO-51T-101 Physical Geography	4	0	0	4	4
2.	5	I	MJR	GEO-51P-102 Practical-I	0	0	2	2	4
3.	5	II	MJR	GEO-52T-103 Geography Of Rajasthan	4	0	0	4	4
4.	5	II	MJR	GEO-52P-104 Practical-II	0	0	2	2	4

Dr.

21/3/2020

Editor

RAJ RISHI BHARTRIHARI MATSYA UNIVERSITY, ALWAR
Semester I (2023-24)

GEO-SIT-101- Physical Geography

Duration- 3 Hours

Max. Marks- 20+80

Min. Marks- 8+32

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-SIT-101	Physical Geography.	5	4
Types of the Course	Delivery type of the Course		
Major	Lecture, 60 Lectures including diagnostic and formative assessments during lecture hours		
Prerequisites	Central Board of Secondary Education or Equivalent		
Objectives of the Course	To attain knowledge in detail about physical geography and associated branches.		

F - 13
 Dr. S.
 2023
 JUN 2023

Semester- I

PAPER-I : PHYSICAL GEOGRAPHY

Note:-

As per the instructions of Rajrishi Bhartrihari Matsya University, Alwar, all the colleges will complete mid-term exam and assignment work for internal assessment, the mark weightage of which is 10 +10 = 20 marks.

The main examination will have to be conducted as per the instructions of the university which is of 80 marks.

Each theory paper is divided into three independent Sections. The question paper is divided into three parts, Part -A, Part-B and Part-C

1. Part-A (20 marks) is compulsory and contains 10 questions (20 words), at least three questions from each Section, each question of 2 marks.
2. Part-B (15 marks) is compulsory and contains five questions, at least one from each Section. Candidate is required to attempt all five questions. Each question is of 3 marks (50 words).
3. Part-C-(45 marks) contains six questions. Two from each Section. Candidate is required to attempt three questions one from each Section. Each question is of 15 marks (400 words)

Course Contents :

Section -A

Definition of Physical Geography; Origin of the earth, Shape and size of the Earth, Motions of the Earth and its Satellite, Physical and chemical state of the earth, structure and zones of the interior of the earth and Geological time scale, Origin of Continents and Oceans, Continental Drift Theory, Plate Tectonics, Concept of isostasy- view of Airy & Pratt,

Earth movements; Diastrophic forces - Faults and folds; Sudden Endogenic forces; Earthquakes and Volcanoes Rocks. their types and characteristic, Theories of mountain building - Joly, Kober and Holmes; Exogenic Forces-Denudation, Concept of cycle of Erosion- Davis and Penck; Landforms associated with Fluvial, Glacial, Aeolian, Coastal & Karst landscapes.

Section B

Composition and structure of the Atmosphere , Insulation, Temperature and 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 Thorntwaite, General climatic classification.

Section –C

Relief features of Atlantic, Indian and Pacific Oceans. Distribution of Temperature and Salinity in oceans, Ocean Currents and Tides, Marine deposits, Coral reefs and Atolls - Types and their origin according to Darwin, Murray and Daly.

Classification of Marine Resources, Biosphere and its components, ecosystem: plants community and animal kingdom, biomes: equatorial rainforest, monsoon, Savannah and temperate grasslands.

Recommended Readings:

1. चौहान वी.एस. व गौतम, ए. 2005 भौतिक भूगोल (जीवमण्डल सहित)। रस्तोगी पब्लिकेशन्स, मेरठ।
2. दयाल पी. 2012, भौतिक भूगोल। राजेष पब्लिकेशन्स, नई दिल्ली।
3. गौतम अल्का, 2012 भौतिक भूगोल। रस्तोगी पब्लिकेशन्स मेरठ।
4. सिंह, सविन्द्र 2005 : भू-आकृति विज्ञान तारा पब्लिकेशन्स, वाराणसी।
5. सिंह, सविन्द्र, 2011 भौतिक भूगोल का स्वरूप। प्रयाग पुस्तक भवन, इलाहाबाद।
6. शर्मा, एच.एस., शर्मा एम.एल.एण्ड मिश्रा आर.एन. 2008 भौतिक भूगोल। पंचशील प्रकाशन जयपुर।
7. डी.आर. खुल्लर, भौतिक भूगोल, कल्याणी पब्लिशर्स।
8. Husain, M. 2001, Fundamentals of Physical Geography. Rawat Publication, Jaipur
9. Hess, D. 2012: Physical Geography , A Landscape Appreciation. PHI Learning Limited, New Delhi, McKnight's Tevitt Edition.
10. Khullar, D.R. 2012: Physical Geography . Kalyani Publishers, New Delhi
11. Sharma, R.C. and Vatal M. 1999: Oceanogra ...
12. Strahler, A.H. : Elements of Physical Geography.
13. Finch & Trewartha :Elements of Physical Geography.

Semester II (2023-24)

RAJ RISHI BHARTRIHARI MATSYA UNIVERSITY, ALWAR

GEO-52T-103 Geography Of Rajasthan

Duration- 3 Hours

Max. Marks- 20+80

Min. Marks- 8+32

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-52T-103	Geography Of Rajasthan	5	4
Types of the Course	Delivery type of the Course		
Major	Lecture, 60 Lectures including diagnostic and formative assessments during lecture hours		
Prerequisites	Central Board of Secondary Education or Equivalent		
Objectives of the Course	To provide understanding of numerous dimensions of human geography and cultural landscapes of Rajasthan physical as well as		

Semester- II

PAPER-II : GEOGRAPHY OF RAJASTHAN

Note:-

As per the instructions of Rajrishi Bhartrihari Matsya University, Alwar, all the colleges will complete mid-term exam and assignment work for internal assessment, the mark weightage of which is $10 + 10 = 20$ marks.

The main examination will have to be conducted as per the instructions of the university which is of 80 marks.

Each theory paper is divided into three independent Sections. The question paper is divided into three parts, Part -A, Part-B and Part-C

1. Part-A (20 marks) is compulsory and contains 10 questions (20 words), at least three questions from each Section, each question of 2 marks.
2. Part-B (15 marks) is compulsory and contains five questions, at least one from each Section. Candidate is required to attempt all five questions. Each question is of 3 marks (50 words).
3. Part-C (45 marks) contains six questions. Two from each Section. Candidate is required to attempt three questions one from each Section. Each question is of 15 marks (400 words)

Course Contents :-

Section A

Rajasthan: Location; Physiographic Regions; Geological structure; Climate and Climatic regions; Drainage system and lakes; Soil types and regions, Erosion and Conservation; Vegetation - types and distribution.

Land utilization in Rajasthan: Agriculture - types and characteristics, production and distribution of food and commercial crops; cropping pattern and Agro-climatic zones; importance and sources of irrigation ; Major irrigation projects- Chambal, Mahi and Indira Gandhi Canal Project (I.G.C.P.); Live Stock Products and Dairy Development Programmes.

Section B

Distribution and production of minerals - metallic and Non-metallic; Power Resources - Coal, Petroleum and Natural Gas; Power Resources - as electricity - Hydro based and non-

conventional, Industrial Development: Classification of industries, Development, distribution, production and locational analysis of cotton textile, cement and stone industries. zinc and copper smelting: Cultural heritage and Tourism industry.

Population: Distribution and density; Population structure - age and sex ratio, urban and rural, literacy and Occupational Population; Population growth since independence, causes, problems and solutions. Social and cultural status of major tribes - Bhil, Garasia, Meena, Saharia.

Section C

Means of transportation - roads, railway network and airways. Detailed study of Marusthal, Aravali, Hadoti and Eastern Plain regions with following heads: Physical environment. Social and cultural environment and economic aspects.

Concept of Human Development - Major indicators, H.D.I. (Human Development Index) of Rajasthan with reference to other states of India.

Status of Women in Rajasthan - changing aspects of demographic, social economic, health and nutrition.

Recommended Readings:

1. Bhalla, L.R. 1996-97 Geography of Rajasthan. Kuldeep Publications,
2. Gujar.R. K. 1992 Geography of Indira Gandhi Canal, Rajasthan Hindi Granth Academy
3. Lodha, R. & Maheshwari, D. 2001: Geography of Rajasthan Sahitya Bhawan Publication, Hospital Road Agra
4. Millim, VIC 1967: Geography of Rajasthan National book trust of India, New Delhi
5. Simph, R.L. 1971 (ed.): India A Regional Geography NGSL Varanasi
6. Attar Singh 1902 Flood Prone Areas of India. Aviskar Publishers, Jaipur Sharma
7. SHARMA H.S. and M.L.Sharma 2014: Geography of Rajasthan. Pancheil Publisher, Jaipur.
8. तेजसिंह चौहान, राजस्थान का भूगोल, साईन्टिफिक पब्लिशर्स, जोधपुर।
9. Geography of Rajasthan, Dr. P.K. Sharma & Dr. Preeti Sharma, Rawat Publication Jaipur.

RAJ RISHI BHARTRIHARI MATSYA UNIVERSITY, ALWAR

Scanned by
ivam Jm 5
11/12/2011

SYLLABUS
PRACTICAL - I
Semester- I

GEO-S1P-102- Practical-I

Duration- 4 Hours

Max. Marks- 10+40

Min. Marks- 4+16

Pattern of Examination	Bifurcation of Marks	Time
Written Test	20	2 Hours
Field Survey and Viva-Voce	7+3	2 Hours
Record Work and Viva-Voce	7+3	

***Note-**

1. The students will have to prepare A4 Size Record Book which will be simultaneously checked by the Teacher in the class after teaching and evaluated during the examinations.
2. There will be 6 questions (3 questions from each unit) in written paper out of which student have to compulsorily attempt 2 questions from each unit.
3. The student will have to prepare Survey Sheet INDIVIDUALLY during the examination.
4. Simple Calculator is permitted in practical examination.

Code of Course	Title of the Course	Level of the Course	Credits of the Course
	Practical-I	5	2
Types of the Course	Delivery type of the Course		
Major	60 contact hrs- Laboratory lectures and field study including diagnostic and formative assessments during lecture hours		
Prerequisites	Central Board of Secondary Education or Equivalent		
Objectives of the Course	To make the students understand about the relief features through scale and relief representation techniques.		

Semester- I

PRACTICAL - I

Note :-

As per the instructions of Rajrishi Bhartrihari Matsya University, Alwar, all the colleges will complete mid-term exam and assignment work for internal assessment, the mark weightage of

which is $05 + 05 = 10$ marks.

The main practical examination will have to be conducted by an external examiner appointed by the university, which is of 40 marks.

Course Contents :

Unit I

Definition and types of scale: simple, comparative, diagonal. Graph: line graph, bar graph, combined line and bar graph.

Unit II

Hypothetical and Climograph, Water Budget Graph, Windrose, Weather map, weather symbols, representation of atmospheric features, interpretation of Indian daily weather maps (July and January), weather instruments.

Unit III

Surveying: Meaning, Classification and Significance, Applicability of Chain Survey, Chain Survey Tools, Chain & Tape Surveying: Open & Closed Traverse.

Recommended Readings:

1. Monkhouse, F.J. and Wilkinson, F.J. 1985: Maps and Diagrams. Methuen, London
2. Mahmood, A. 1998 : Statistical Methods in Geographical Studies. Rajesh Publication, New Delhi (fourth revised edition).
3. Raisz, E. 1962: General Cartography. John Wiley and Sons, New York. 5th edition.
4. Singh, R.L. and Singh, Rana, P.B., 1991, Elements of Practical Geography. Kalayani Publishers, New Delhi.
5. Sarkar, A.K. 1997 : Practical Geography : A Systematic Approach. Orient Longman, Kolkata.
6. शर्मा, जे.पी. 2011 :- प्रयोगात्मक भूगोल की रूपरेखा। रस्तोगी पब्लिकेशन्स, मेरठ।
7. Singh, L.R. 2006 : Fundamentals of Practical Geography. Sharda Pustak Bhawan, Allahabad.
8. Venkatramiah, C, 1997 : A Text Book of Surveying. University Press, Hyderabad.
9. प्रायोगिक भूगोल, डॉ. आर.एन.मिश्रा, डॉ. पी.के.शर्मा, रावत पब्लिकेशन्स, जयपुर।

RAJ RISHI BHARTRIHARI MATSYA UNIVERSITY, ALWAR SYLLABUS

PRACTICAL - II

Semester- II

GEO-52P-104- Practical-II

Duration- 4 Hours

Max. Marks- 10+40

Min. Marks- 4+16

Pattern of Examination	Bifurcation of Marks	Time
Written Test	20	2 Hours
Field Survey and Viva	7+3	2 Hours
Record and Viva	7+3	

***Note:-**

1. The students will have to prepare A4 Size Record Book which will be simultaneously checked by the Teacher in the class after teaching and evaluated during the examinations.
2. There will be 6 questions (3 questions from each unit) in written paper out of which student have to compulsorily attempt 2 questions from each unit.
3. The student will have to prepare Survey Sheet INDIVIDUALLY during the examination.
4. Simple Calculator is permitted in practical examination.

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-52P-104	Practical-II	5	2
Types of the Course	Delivery type of the Course		
Major	60 contact hrs- Laboratory lectures and field study including diagnostic and formative assessments during lecture hours		
Prerequisites	Central Board of Secondary Education or Equivalent		
Objectives of the Course	To attain the knowledge about the geographical data representation with the help of cartographical skills.		

PRACTICAL - II

Semester- II

Note :-

As per the instructions of Rajrishi Bhartrihari Matsya University, Alwar, all the colleges will complete mid-term exam and assignment work for internal assessment, the mark weightage of which is 05 + 05 = 10 marks.

16/1

*Ge. V Jw'17
JW/17*

The main practical examination will have to be conducted by an external examiner appointed by the university, which is of 40 marks.

Unit - I

Methods of showing different features: hachures, hills shading, benchmark, spot heights, form lines, 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)

Unit - II

Profiles: serial, superimposed, projected and composite. Statistical methods — computation of Data, Preparation of frequency tables, Graphical representation of frequency distribution. Histogram. Frequency polygon. Frequency curve

Unit - III

Surveying : Chain Survey Stations, Factors Affecting Survey Station Selection, Line Types in Chain Survey, Offsets in Chain Survey, Chain and Tape Surveying: Tie-line, Chain Survey Procedures. It's Problems and Solutions.

Recommended Readings:

1. Monkhouse, F. J. and Wilkinson, F.J. 1985: Maps and Diagrams. Methuen, London
2. Mahmood, A 1998 : Statistical Methods in Geographical Studies. Rajesh Publication, New Delhi (fourth revised edition).
3. Raisz, E. 1962: General Cartography. John Wiley and Sons, New York. 5th edition.
4. Singh, R.L. and Singh, Rana, P.B., 1991, Elements of Practical Geography. Kalayani Publishes, New Delhi.
5. Sarkar, A.K. 1997 : Practical Geography : A Systematic Approach. Orient Longman, Kolkata.
6. शर्मा, जे.पी. 2011 :- प्रयोगात्मक भूगोल की रूपरेखा, रस्तोगी पब्लिकेशन्स, मेरठ।
7. Singh, L.R. 2006 : Fundamentals of Practical Gegoraphy. Sharda Pustak Bhawan, Allahabad.
8. Venkartrameiah, C, 1997 : A Text Book of Surveying. University Press, Hyderabad.
9. प्रायोगिक भूगोल, डॉ. आर.एन.मिश्रा, डॉ. पी.के.शर्मा, रावत पब्लिकेशन्स, जयपुर।