

# **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

## Syllabus

B.A. / B.Sc. Geography

Semester – I & II

EXAMINATION 2023-24

### SEMESTER WISE PAPER TITLES WITH DETAILS

Three/Four Year Bachelor of Arts/Science In Geography									
S. No.	Level	Semester	Type	Title	Credits				Contact Hours
					L	T	P	Total	
1.	5	I	MJR	Geo-T – Physical Geography	4	0	0	4	4
2.	5	I	MJR	Geo-PR – Practical	0	0	2	2	4
3.	5	II	MJR	Geo-T – Geography of Rajasthan	4	0	0	4	4
4.	5	II	MJR	Geo-PR – Practical	0	0	2	2	4

*Dr. J. K. Singh*  
*1/11/23*  
*11/11/23*

**Syllabus**  
**B.A. (P)-Semester-I**  
**Geo-T- Physical Geography**

Code of course	Title of the course	Level of the course	Credit of the course
Geo -T	Physical Geography	5	4
Type of the course	Delivery type of the course		
Major	Lectures, 60 lectures including diagnostic & formative assessment during lecture hours		
Prerequisites	Central board of secondary education or equivalent		
Objective of the course	To provide an extensive overview of Physical Geography involving the numerous dimensions of the world physical landscapes.		

DURATION- 3 HOURS

MAX MARKS: 20+80+100

MIN MARKS: 08+32=40

Pattern of examination	Bifurcation of marks
Part A	10×2 = 20
Part B	15×4 = 60
Total	80

NOTE:-

1. Internal assessment will be as per University Norms.
2. End semester examination question paper will comprise of two parts: Part A & Part B
3. Part A will comprise two questions consisting Map Work and Multiple-Choice Questions (MCQs)/ Short Answer type questions.
4. Part B will comprise of four descriptive questions with internal choice from each unit.
5. In all students will have attempt total six questions, two questions from Part A and four questions from Part B

11/11/21

F. K. J. S. P. S.

11/11/21

**Syllabus**  
**Semester- I**  
**B.A.**  
**Physical Geography**

**Course Contents:**

**Unit –I**

Definition of Physical Geography; Origin of the earth, shape and size of the Earth; Big Bang Theory; Motions of the Earth and it's 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

**Unit –II**

Rocks and 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.

**Unit –III**

Composition and structure of the Atmosphere, Insolation, 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 Thornthwaite, General Climatic Classification

**Unit –IV**

Relief features of Atlantic, Indian and Pacific Oceans. Oceans Temperature and Salinity, 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. Husain, M; 2001, Fundamentals of Physical Geography. Rawat Publication, Jaipur.
2. Hess, D; 2012 Physical Geography, A Landscape Appreciation. PHI Learning Limited, New Delhi, McKnight's Tenth Edition.
3. Khullar, D.R; 2012: Physical Geography. Kalyani Publishers, New Delhi.

4. Sharma, R.C. and Vatal M; 1999: Oceanography.
5. Strahler, A.H; Elements of Physical Geography.
6. Finch & Trewartha; Elements of Physical Geography.
7. चौहान वी.एस. व गौतम, ए; 2005 भौतिक भूगोल (जीवमण्डल सहित)। रस्तोगी पब्लिकेशन्स, मेरठ।
8. दयाल पी; 2012, भौतिक भूगोल। राजेश पब्लिकेशन्स, नई दिल्ली।
9. गौतम अल्का; 2012 भौतिक भूगोल। रस्तोगी पब्लिकेशन्स मेरठ।
10. सिंह, सविन्द्र; 2005 : भू-आकृति विज्ञान तारा पब्लिकेशन्स, वाराणसी।
11. सिंह, सविन्द्र; 2011 भौतिक भूगोल का स्वरूप। प्रयाग पुस्तक भवन, इलाहाबाद।
12. शर्मा, एचएस, शर्मा एम.एल.एण्ड मिश्रा आर.एन; 2008 भौतिक भूगोल। पंचषील प्रकाशन जयपुर।
13. डी.आर. खुल्लर; भौतिक भूगोल, कल्याणी पब्लिषर्स।

जायनी

वि.के. शर्मा

चौहान

**Syllabus**  
**Semester-I**  
**Practical (Regular)**  
**GEO-P**

Duration 4 Hour

Max. Marks- 10+40=50

Min. Marks- 04+16=20

Code of course	Title of the course	Level of the course	Credit of the course
Geo -P	Practical-IV	5	4
Type 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		
Objective of the course	To make the students understand about the cartographic techniques, map representation, data analysis and statistical methods.		

Pattern of examination	Bifurcation of marks	Time
Written test	20	02 hours
Field survey and viva-voce	7+3	02 hours
Record work and viva-voce	7+3	

**(Non-Collegiate)**

Duration 4 Hour

Max. Marks- 50

Min. Marks- 18

Pattern of examination	Bifurcation of marks	Time
Written test	24	02 hours
Field survey and viva-voce	8+5	02 hours
Record work and viva-voce	8+5	

NOTE:-

1. Each practical batch of 30 students will be allotted 4 hours of teaching per week for practicals.
2. The students will have to prepare B4 Size Record Book which will be simultaneously checked by the Teacher in the class after teaching and evaluated during the examinations.
3. There will be 6 questions (2 questions from each unit) in written paper out of which student have to compulsorily attempt I question from each unit. Candidates are required to attempt 4 questions. All question carry equal marks.
4. The student will have to prepare Survey Sheet individually during the examination.
5. Simple Calculator is permitted in practical examination.

**Syllabus**  
**Semester- I**  
**B.A.**  
**Practical**

**Course Contents :-**

**Unit-I**

Definition and Types of Scale: Simple, Comparative, Diagonal. Graph: Line Graph, Bar Graph, Combined Line and Bar Graph.

**Unit-II**

Hythergraph and Climograph, Water Budget Graph, Windrose Diagram. Weather Maps, 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 Surveying Method Open & Closed Traverse.

**Recommended Readings:-**

1. Monkhouse, F.J. and Wilkinson, F; 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, 5<sup>th</sup> 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. Singh, L.R; 2006, Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
7. Venkartra Meiah, C; 1997, A Text Book of Surveying. University Press, Hyderabad.
8. शर्मा, जे.पी; 2011, प्रयोगात्मक भूगोल की रूपरेखा, रस्तोगी पब्लिकेशन्स, मेरठ।

जायनी      R. K. Singh      चिंता

**Syllabus**  
**B.A. (P)-Semester-II**  
**Geo-T- Rajasthan Geography**

Code of course	Title of the course	Level of the course	Credit of the course
Geo -T	Rajasthan Geography	5	4
Type of the course	Delivery type of the course		
Major	Lectures, 60 lectures including diagnostic & formative assessment during lecture hours		
Prerequisites	Central board of secondary education or equivalent		
Objective of the course	To provide an extensive knowledge of Rajasthan involving its natural as well as social and cultural landscapes.		

DURATION- 3 HOURS

MAX MARKS: 20+80=100

MIN MARKS: 08+32=40

Pattern of examination	Bifurcation of marks
Part A	10×2 = 20
Part B	15×4 = 60
Total	80

NOTE:-

1. Internal assessment will be as per University Norms.
2. End semester examination question paper will comprise of two parts: Part A & Part B
3. Part A will comprise two questions consisting Map Work and Multiple-Choice Questions (MCQs)/ Short Answer type questions.
4. Part B will comprise of four descriptive questions with internal choice from each unit.
5. In all students will have attempt total six questions, two questions from Part A and four questions from Part B

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**Syllabus**  
**Semester- II**  
**B.A.**  
**Geography of Rajasthan**

**Course Contents:-**

**Unit-I**

Rajasthan: Location; and its Physiographic Regions; Geological Structure; Climate and Climatic Regions; Drainage System and Lakes; Types of Soils, Erosion and Conservation, Vegetation-Types and Distribution, Land Utilization in Rajasthan Agriculture-Types and Characteristics. Production and Distribution of Food Grains and Commercial Crops; Cropping Pattern; Agro-climatic Regions.

**Unit-II**

Source of Irrigation and its Importance; Major Irrigation Projects; Chambal, Mahi and Indira Gandhi Canal Project (I.G.C.P.), Livestock and Dairy Development Programs. Availability Distribution and Production of Minerals, Metallic and Non-Metallic; Energy Resources; (Hydro Based, Coal, Petroleum and Natural Gas and Non-Conventional Energy Resources) Industrial Development: Classification of Industries, Development, Distribution, Production and Locational Analysis of Cotton Textile, Cement and Stone Industries, Zinc and Coppers Melting, Cultural Heritage and Tourism Industry.

**Unit-III**

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, Garasiya, Meena, Saharia.

**Unit-IV**

Means of Transportation-Roads, Railway Network and Airways. Detailed Study of Marusthali, 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 Granrth

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. Singh, R.L; 1971(ed.), India A Regional Geography NGSL, Varanasi.
6. Attar Singh 1902 Flood Prone Areas of India. Aviskar Publishers, Jaipur.
7. Sharma H.S. and M.L. Sharma; 2014, Geography of Rajasthan. Pancsheel Publisher, Jaipur.
8. तेजसिंह चौहान; 2018, राजस्थान का भूगोल, साइन्टिफिक पब्लिशर्स, जयपुर।

जाजनी

रि. क. जयपुर

चौहान

**Syllabus**  
**Semester-II**  
**Practical (Regular)**  
**GEO-P**

Duration 4 Hour

Max. Marks- 10+40=50

Min. Marks- 04+16=20

Code of course	Title of the course	Level of the course	Credit of the course
Geo -P	Practical-IV	5	4
Type of the course	Delivery type of the course		
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Duration 4 Hour

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3. There will be 6 questions (2 questions from each unit) in written paper out of which student have to compulsorily attempt I question from each unit. Candidates are required to attempt 4 questions. All question carry equal marks.
4. The student will have to prepare Survey Sheet individually during the examination.
5. Simple Calculator is permitted in practical examination.

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**Syllabus**  
**Semester- II**  
**B.A.**  
**Practical**

**Course Contents:-**

**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 Profile. Statistical Methods — Computation of Data, Preparation of Frequency Tables, Graphical Representation of Frequency Distribution, Histogram, Frequency Polygon, and 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, 5<sup>th</sup> 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. Singh, L.R. 2006; Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
7. Venkartra Meiah, C; 1997, A Text Book of Surveying, University Press, Hyderabad.
8. शर्मा, जे.पी; 2011, प्रयोगात्मक भूगोल की रूपरेखा रस्तोगी पब्लिकेशन्स, मेरठ।