

# GEOGRAPHY

B.A. Examination 2023

Semester-I (NEP-MAJOR)

Basics of Physical Geography

Course Code: MJGG01

*Questions are of values as indicated in the margin. Attempt any*

Time: 3 Hours

*four questions selecting one from each unit*

Full Marks: 80

## Unit-1

### Introductory Geotectonics

1. Explain *plate tectonic theory* with a focus on plate boundaries. Briefly describe *geological time scale*. 14+6=20
2. Discuss the causes and consequences of earthquake with examples. Bring out the concept of seismic wave and its types. 14+6=20

## Unit-2

### Geomorphic Processes and Landforms

3. Differentiate *mass-wasting* from *weathering*. Account for various types of mass movement depending on their velocity. Describe different types of waterfalls with suitable examples. 4+8+8=20
4. Highlight the major controlling factors influencing the rate of coastal erosion. Explain in brief the erosional processes involved in marine action. Discuss the resultant landforms of coastal erosion. 4+4+12=20

## Unit-3

### Introduction to Climate and Ocean

5. Differentiate waves from *tides* and *currents*. Give a descriptive account of the ocean currents of the Pacific ocean. 10+10=20
6. (a) Describe the topography of the Atlantic ocean floor. (b) Elaborate by discuss vertical structure of the atmosphere. 10+10=20

## Unit-4

### Soil and Biogeography

7. Distinguish between *zonal* and *azonal* soils with suitable examples. Identify deficiency symptoms of major nutrients on plants and suggest the measures suitable for correcting such deficiencies in soils. How does excess supply of various nutrients in soil affect plant growth? 4+12+4=20
8. What is trophic level? Differentiate *biome* from *biosphere*. Explain the movement of energy within the ecosystem with reference to *food-chain* and *food web*. 2+6+12=20

**GEOGRAPHY**  
**B.A. Examination, 2023**  
**Semester-I (NEP-Major)**  
**Basics of Human Geography**  
**Course Code: MJGG02**

Time: 3  
hours

Questions are of value as indicated in the margin.  
Attempt any *four* questions selecting at least **one from each unit**

Full  
marks:80

**Unit-I**  
**Nature and Development of Human Geography**

- |   |         |
|---|---------|
| 1. Explain the nature of Human Geography. Elaborate different branches of Human Geography.  | 5+15=20 |
| 2. What is environmental determinism? Elaborate the strategies proposed by Edward A.Ackerman to alleviate the*problem of population pressure on global resources. | 5+15=20 |

**Unit-II**  
**Dynamics of Human Geography**

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|--|----------|
| 3. Bring out the concepts of <i>urban</i> and <i>urbanisation</i> . Critically discuss the inter-relationship between economic progression and urbanisation. | 6+14= 20 |
| 4. Define migration. Elaborate the types, causes and implications of migration.  | 2+18=20  |

**Unit-III**  
**Aspects of Human habitat and Society**

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|--|------------|
| 5. Define settlement. Explain how site and situation helps in explaining origin and growth of a settlement. Write a note on classification of settlements with suitable examples and illustrations.                                    | 4+6+10=20  |
| 6. Distinguish between <i>hunger</i> and <i>undernutrition</i> . Discuss various types of hunger. What is meant by hunger 'hotspots'? 'The causes of hunger are diverse and complex' - elucidate the statement with suitable examples. | 4+6+3+7=20 |

**Unit-III**  
**Contemporary Issues in Human Geography**

- |  |       |
|--|-------|
| 4. Which are the top ten most populous countries of the world as per the recent database? Explain the factors responsible for the distribution of world population.  | 8+12= |
| 5. Specify the different Sustainable Development Goals (SDGs). Explain the concept of dependency ratios and index of ageing. 'A country's shift to the old age structure has important implications' - explain the statement in the light of challenges encountered by the working and elderly population of such society. | 4+8+8 |

**GEOGRAPHY**  
**B.A. Examination 2023**  
**Semester I (NEP)**  
**Paper - SEC (Practical)**  
**Course Title: Cartographic Techniques and Weather Data Interpretation**

Time: 4 hours

Full Marks: 60

*Questions are of values as indicated in the margin. Attempt all questions*

- Q 1. a) The statement of a map scale is given as 1 cm to 1 km. Calculate the R.F. and draw a comparative scale to show kilometers and miles in primary division, and meters and furlongs in secondary division. 8

- b) Represent the data in Table 1 on Map No. 1 with a suitable diagram and interpret the result. 5+2=7

*Table 1: Population by Sex, Delhi, 2011*

Sl. No.	State/selected Districts	Persons	Males	Females
	NCT OF DELHI	1,67,87,941	89,87,326	78,00,615
1	North West	36,56,539	19,60,922	16,95,617
2	North East	22,41,624	11,88,425	10,53,199
3	East	17,09,346	9,07,500	8,01,846
4	New Delhi	1,42,004	77,942	64,062
5	West	25,43,243	13,56,240	11,87,003
6	South West	22,92,958	12,46,046	10,46,912
7	South	27,31,929	14,67,428	12,64,501

*Source: Census of India, 2011*

- Q 2. a) Prepare a choropleth map on Map No. 2 with the following data in Table 2 and interpret it. 8+2=10

*Table 2: Population density, West Bengal, 2011*

Sl. No.	Districts	Population Density
1	Bankura	523
2	Bardhaman	1099
3	Birbhum	771
4	Darjiling	586
5	Haora	3306
6	Hugli	1753
7	Jalpaiguri	622
8	Koch Bihar	832
9	Maldah	1069

Sl. No.	Districts	Population Density
10	Murshidabad	1334
11	Nadia	1316
12	North 24 Parganas	2445
13	North Dinajpur	958
14	Paschim Medinipur	631
15	Purba Medinipur	1081
16	Puruliya	468
17	South 24 Parganas	819
18	South Dinajpur	755

*Source: Census of India, 2011*

- b) What are the differences between choropleth and isopleth maps? 5
- Q 3. Write a note on your visit to the meteorological station. Make an ideal station model placing all its components properly with explanations. 5+10=15
- Q 4. Laboratory Notebook and Viva-voce. 10+5=15



**GEOGRAPHY**  
**B.A. Examination 2023**  
**Semester-I (NEP-Minor)**  
**Introduction to Physical Geography**  
**Course Code: MNGG01**

Time: 3 Hours

Full Marks: 80

*Questions are of values as indicated in the margin.*  
*Attempt any four questions selecting one question from each unit.*

**Unit – 1**  
**Geomorphology and Geotectonics**

1. What are the different layers in the interior of the earth? Specify their physical characteristics. Classify plate boundaries with examples of the resultant landforms. 4+4+12=20
2. Define mass wasting. How does *weathering* differ from *erosion*? Explain the different types of weathering. 2+6+12=20

**Unit – 2**  
**Climatology and Oceanography**

3. Define tides and explain the processes involved in their formation. Differentiate *spring tide* from *neap tide*. Highlight the economic importance of tides. 8+8+4=20
4. Describe the *layers* and *components* of the atmosphere in detail. 10+10=20

**Unit – 3**  
**Soil and Biogeography**

5. Provide an account of the generalized soil profile with a suitable diagram. Assess the importance of soil as natural resource. 14+6=20
6. Define ecosystem and describe its components. Explain the concepts of trophic level, food chain and food web. 8+12=20

**Unit – 4**  
**Physical Geography of West Bengal**

7. What are the major physiographic zones of West Bengal? Describe the salient features of each of them. 4+16=20
8. State the importance of alluvial soil for agriculture in West Bengal. Describe the soil characteristics in the Sundarban region. How do they influence the *flora* and *fauna* of the region? 6+8+6=20

**DEPARTMENT OF GEOGRAPHY**

**VIDYA BHAVANA**

**VISVA-BHARATI**

**B.A.Examination-2024**

**Geography**

**Semester-I (NEP-Major)**

**Course Code : MJGG01**

**Course Name: Basics of Physical Geography**

Time: 3 Hours

Full Marks: 80

Questions are of values as indicated in the margin  
Attempt any Four questions selecting One from each unit

**Unit-I**

(Introductory Geotectonics)

1. Critically explain the continental drift theory. Describe various types of igneous intrusions with diagrams. 12+8= 20
2. Elaborate the internal structure of the earth. Briefly discuss the concept of Isostasy. 15+5=20

**Unit-II**

(Geomorphic Processes and Landforms)

3. What is a desert? Mention the Aeolian processes that dominantly play roles in deserts. Discuss the resultant landforms of Aeolian processes with appropriate illustrations. 4+6+10=20
4. Write short notes on:
  - a. Different categories of Rapid Flow movements
  - b. Headward Erosion and River Capture.
  - c. Difference between Drumlin and Roches Moutonnee
  - d. Difference between Ingrown and Incised Meander 5X4=20

**Unit-III**

(Introduction to Climate and Ocean)

5. Describe heat budget of the atmosphere with necessary illustrations. Explain the concept of normal lapse rate. 15+5=20
6. Describe the Koppen's system of climate classification. What are its merits and demerits? 15+5=20

**Unit-IV**

(Soil and Biogeography)

7. Distinguish between ecology and ecosystem. Highlight the sub-divisions of ecology. Discuss the components of ecosystem. What is ecotone? 4+4+10+2=20
8. Distinguish between primary clay minerals and secondary clay minerals of soils. Write short notes on:
  - a. Salinization
  - b. Calcification
  - c. Laterization
  - d. Podzolization 4+4+4+4+=20

**BA (Honours) Examination, 2024**

**Semester I**

**Geography**

**Course- MJGG02**

**(Basics of Human Geography)**

**Time: 3 Hours**

**Full Marks: 80**

Questions are of value as indicated in the margin.

*Attempt any four questions selecting one from each unit.*

**Unit -1**

**(Nature and Development of Human Geography)**

1. Illustrate the five population-natural resources and technology regions as proposed by Edward Ackerman in his work? Elaborate on the Possibilism and Neo-determinism 10+10=20
2. Explain the content of any two sub branches of Human Geography. Elaborate on the Caste and the *Jajmani* system of rural India with a case study. 8+12=20

**Unit-2**

**(Dynamics of human geography)**

3. Define migration. Discuss the basis, types, streams and reasons of migration. 2+4+4+5+5=20
4. Illustrate the sequential changes from Industry 1.0 to Industry 4.0 with special reference to economic diversification. Define urbanization and discuss its causes. 14+6=20

**Unit -3**

**(Aspects of Human Habitat and Society)**

5. Define social wellbeing. Write a note on Maslow's classification of needs. What are the types and indicators of Wellbeing? 4+16=20
6. Distinguish between Compact and Dispersed settlements. Explain how site characteristics help in explaining origin and growth of a settlement. Discuss Ghurye's model of caste based social segregation in Indian villages 6+6+8=20

**Unit -4**  
**(Contemporary Issues in Human Geography)**

7. What is density of population? Mention the five most densely populated states of India as per census 2011 and bring out the decadal change which they experienced during 2001- 2011. 2+18=20
8. What do you understand by the concept of Sustainable Development? State all the sustainable development goals. Explain why it is essential to include indigenous people to attain sustainable development. 2+4+14=20



**Department of Geography**  
**Vidya-Bhavana, Visva-Bharati**

**Bachelor of Arts Semester-I Examination 2024**

**Course Code: SECGG01**

**Course Title: Cartographic Techniques and Weather Data Interpretation (Practical)**

Time: 3 Hours

Full Marks: 60

*Questions are of values as indicated in the margins*  
*Attempt all questions*

**Unit 1: Concept of Scale and Diagrammatic Representation**

1. Represent the following data using suitable diagram .

15

Average maximum and minimum temperatures in °C, Durgapur, West Bengal												
Months	J	F	M	A	M	J	J	A	S	O	N	D
Max. temp.	22	29	36	43	41	42	37	35	34	32	28	25
Min. temp.	9	15	19	24	26	26	26	25	25	22	17	10
Source: India Meteorological Department												

**Unit 2: Introduction to Mapping Techniques**

2. Refer to the table and given map (1). Prepare a choropleth map and interpret it.

12+3  
= 15

Table: Rice Yield, India, 2010-11

State Name	Rice Yield (kg/ha)
Andhra Pradesh (erstwhile)	2742
Arunachal Pradesh	1777
Assam	1662
Bihar	1101
Chattisgarh	1120
Goa	2136
Gujarat	1866
Haryana	3008
Himachal Pradesh	1381
Jammu & Kashmir (erstwhile)	1914
Jharkhand	1547
Karnataka	2345
Kerala	2514
Madhya Pradesh	872
Maharashtra	1474



Bachelor of Arts Semester-I Examination 2024

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State Name	Rice Yield (kg/ha)
Manipur	1889
Meghalaya	1673
Mizoram	938
Nagaland	1426
Odisha	1512
Punjab	4010
Rajasthan	1515
Sikkim	1869
Tamil Nadu	2994
Tripura	2698
Uttar Pradesh	2083
Uttarakhand	2025
West Bengal	2396

Source: Economics, Statistics & Evaluation Division  
Dept. of Agriculture & Farmer's Welfare  
Ministry of Agriculture & Farmers' Welfare  
Government of India

**Unit 3: Interpretations of Weather Data**

3. Prepare a wind rose diagram based on the given weather map (2) and interpret the diagram. Explain the significance of synoptic chart and station model in weather data analysis. 15
4. Laboratory notebook and Viva-voce 5+10  
= 15

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**Bachelor of Arts Semester-I Examination 2024**

**Course Code: MNGG01**

**Course Title: Introduction to Physical Geography**

Time: 3 Hours

Full Marks: 80

*Questions are of values as indicated in the margins*  
*Attempt any **four** questions selecting **one** from each unit*

**Unit 1: Geomorphology and Geotectonics**

1. Differentiate between erosion and weathering. Explain various landforms created by wind or river. 5+15 =  
20
2. What are the resultant landforms of epeirogenic and orogenic movements? Explain relationship between earthquake and volcanism. 12+8 =  
20

**Unit 2: Climatology and Oceanography**

3. Define atmosphere. Describe its composition and layers. Differentiate between planetary winds and local winds. 3+12+5  
= 20
4. Define Tides. Explain the processes behind its formation. Describe the major and minor oceanic landforms. 2+6+12  
= 20

**Unit 3: Soil and Biogeography**

5. What is bio-geo-chemical cycle? Explain at least one bio-geo-chemical cycle. Differentiate between food chain and food web. 2+10+8  
= 20
6. Define soil. Describe types of soil and explain a soil profile through suitable example. 20

**Unit 4: Physical Geography of West Bengal**

7. Describe the major physiographic division of West Bengal. Explain their formation, characteristics, and significance. 8+12 =  
20
8. Discuss the important rivers systems of West Bengal, outlining their sources, courses, and impact on the state's economy and agriculture. 20