



UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours Part-I Examination, 2020

GEOGRAPHY

PAPER-I

PHYSICAL GEOGRAPHY

Time Allotted: 1 Hour

Full Marks: 25

The figures in the margin indicate full marks.

SECTION-I

Answer any one question

10×1 = 10

1. Explain the theory of Plate Tectonics with suitable illustrations. Make a classification of plate margins according to the nature of motion. 6+4
2. Define mass wasting. Give an account of different types of mass movements and landforms produced by them. 2+5+3

SECTION-II

Answer any one question

10×1 = 10

3. What is Nebular Hypothesis? Evaluate the Nebular Hypothesis as suggested by Pierre Laplace. 2+8
4. Give a brief account of the layering of the interior of the earth. 10
5. Classify fold and mention the basis of classification. 10
6. Describe the processes of physical weathering. 10

SECTION-III

7. Define the following terms: 1×5 = 5
 - (a) Mohorovicic discontinuity
 - (b) Block mountain
 - (c) Reverse fault
 - (d) Mudflow
 - (e) Honeycomb weathering.

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UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours Part-I Examination, 2020

GEOGRAPHY

PAPER-II

PHYSICAL GEOGRAPHY

Time Allotted: 1 Hour

Full Marks: 25

The figures in the margin indicate full marks.

SECTION-I

Answer any one question

10×1 = 10

1. What are the favourable conditions for the development of Karst region? Describe the erosional and depositional landforms produced by underground water in Karst region. 3+7
2. Explain the evolution of drainage system in a folded structure with suitable diagrams. 10

SECTION-II

Answer any one question

10×1 = 10

3. Describe the features produced by wind action with suitable diagrams. 10
4. Describe the depositional features produced by a glacier with suitable diagrams. 10
5. Write a criticism on Davis's theory of Normal Cycle of Erosion. 10
6. Define run-off. What are the factors that affect the surface run-off ? 2+8

SECTION-III

7. Define the following terms: 1×5 = 5
 - (a) Backswamp deposits
 - (b) Ventifacts
 - (c) Hanging valley
 - (d) Base level of erosion
 - (e) Hydrological cycle.

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UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours Part-I Examination, 2020

GEOGRAPHY

PAPER-III

GEOGRAPHY OF RESOURCES

Time Allotted: 1 Hour

Full Marks: 25

The figures in the margin indicate full marks.

SECTION-I

Answer any one question

10×1 = 10

1. Explain how resources are created through dynamic interaction of natural, human and cultural factors. 10
2. Discuss about the characteristics and geographical distribution of softwood forest belts over the globe. Why lumbering is so developed in temperate forest regions? 4+6

SECTION-II

Answer any one question

10×1 = 10

3. Write a short note on economic importance of forest resources. 10
4. Examine the role of OPEC in global trade of petroleum. 10
5. Assess the impact of population explosion on resources. 10
6. Explain the guiding principles of sustainable development. Why is sustainable development necessary? 6+4

SECTION-III

7. Define the following terms: 1×5 = 5
 - (a) Social forestry
 - (b) Chipko movement
 - (c) Phantom Pile
 - (d) Offshore drilling
 - (e) Optimum population.

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UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours Part-II Examination, 2020

GEOGRAPHY

PAPER-V

GEOGRAPHY OF ECONOMIC ACTIVITIES

Time Allotted: 1 Hour

Full Marks: 25

The figures in the margin indicate full marks.

SECTION-I

Answer any one question

10×1 = 10

1. What are the characteristics of subsistence farming? Discuss in detail the rice farming in the South-East Asian countries in present scenario. 2+8
2. Critically assess the Industrial Location Theory as proposed by A. Losch. 10

SECTION-II

Answer any one question

10×1 = 10

3. Discuss the sectoral classification of economic activities in detail with examples. 10
4. What is horticulture? What are the factors influencing the concentration of horticulture in the Mediterranean region? 2+8
5. Write a note on the salient features of rubber plantations in South-East Asia. 10
6. Write a short note on globalization. 10

SECTION-III

7. Define the following terms (any *two*):

$2\frac{1}{2} \times 2 = 5$

- (a) Dairy farming
- (b) Isodopane
- (c) Terrace farming
- (d) Marginal workers
- (e) Air pollution.

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UNIVERSITY OF NORTH BENGAL
B.A./B.Sc. Honours Part-II Examination, 2020

GEOGRAPHY

PAPER-VI

POPULATION GEOGRAPHY

Time Allotted: 1 Hour

Full Marks: 25

The figures in the margin indicate full marks.

SECTION-I

Answer any one question

10×1 = 10

1. Discuss the world migration pattern since World War II. 10
2. What is under population and optimum population? Briefly explain the causes and effects of overpopulation in India. 3+7

SECTION-II

Answer any one question

10×1 = 10

3. Give an account of the scope and content of Population Geography. 10
4. Make a note on the determinants of world distribution of population. 10
5. Explain the significance of ethnic composition of population of India. 10
6. Discuss the differences between the developing and developed countries with respect to rural-urban composition of population. 10

SECTION-III

7. Define the following terms (any *two*): $2\frac{1}{2} \times 2 = 5$
 - (a) Brain gain
 - (b) Transhumance
 - (c) Forced migration
 - (d) Population density
 - (e) Sex-ratio.

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UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours Part-II Examination, 2020

GEOGRAPHY

PAPER-VII

SETTLEMENT AND POLITICAL GEOGRAPHY

Time Allotted: 1 Hour

Full Marks: 25

The figures in the margin indicate full marks.

SECTION-I

Answer any one question

10×1 =10

1. State the factors affecting location of rural settlement. Discuss in detail the different types of rural settlements in India. 3+7
2. Discuss Mackinder's 'Heartland Theory' and examine its relevance in the contemporary geo-politics. 7+3

SECTION-II

Answer any one question

10×1 = 10

3. Discuss the scope and content of Settlement Geography. 10
4. Briefly describe the environmental problems of urban settlements in India. 10
5. Describe the Buffer State with examples. 10
6. Assess the Geo-strategic ideas of Ratzel. 10

SECTION-III

7. Define the following terms (any *two*): $2\frac{1}{2} \times 2 = 5$
 - (a) Census Town
 - (b) C.B.D
 - (c) Frontier
 - (d) Sub-urbanization
 - (e) Superimposed boundary.

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UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours Part-III Examination, 2020

GEOGRAPHY

PAPER-IX

CLIMATOLOGY

Time Allotted: 1 Hour

Full Marks: 25

The figures in the margin indicate full marks.

*The word limit mentioned below against each question to be strictly followed by the students:
2 marks-30 words / 2.5 marks-40 words / 8 marks-220 words / 10 marks-300 words.*

SECTION-I

Answer any one question

10×1 = 10

1. Differentiate between insolation and temperature. Describe the factors affecting the distribution of insolation throughout the globe. 2+8=10
2. Give an account of the scheme of World Climatic Classification as proposed by C. W. Thornthwaite. 10

SECTION-II

Answer any one question

10×1 = 10

3. Write a short note on the importance of the Ozone layer on the Earth. 10
4. Give a short account on horizontal distribution of atmospheric pressure on the Earth. 10
5. Write on the mechanism of orographic rainfall with suitable diagrams. 10
6. Attempt a genetic classification of fronts. 10

SECTION-III

7. Define the following terms (any two): 2.5×2 = 5
 - (a) Sublimation
 - (b) BWk climate
 - (c) Dry adiabatic lapse rate
 - (d) cP airmass
 - (e) Eye of the cyclone.

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UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours Part-III Examination, 2020

GEOGRAPHY

PAPER-X

PEDOLOGY AND BIO-GEOGRAPHY

Time Allotted: 1 Hour

Full Marks: 25

The figures in the margin indicate full marks.

The word limit mentioned below against each question to be strictly followed by the students:

*2 marks-30 words / 2.5 marks-40 words / 3 marks-50 words /
5 marks-100 words / 8 marks-220 words / 10 marks-300 words.*

SECTION-I

Answer any one question

10×1 = 10

1. Define Pedology. Discuss the various factors affecting soil formation. 5+5 = 10
2. Define ecosystem. Discuss the anthropogenic factors responsible for degradation of wetland and also suggest some remedial measures. 2+5+3=10

SECTION-II

Answer any one question

10×1 = 10

3. Discuss in brief the USDA soil taxonomic classification. 10
4. How is soil organic matter formed? Explain the role of organic matter in soil fertility. 5+5 = 10
5. Discuss the scope and significance of Biogeography. 10
6. Define biome. Discuss in detail the relationship between biotic and abiotic components in tropical evergreen forest biome. 2+8 = 10

SECTION-III

7. Define the following terms (**any two**): 2.5×2 = 5
 - (a) Pedon
 - (b) Ramsar Convention
 - (c) Genetic diversity
 - (d) Illuviation
 - (e) Ecological niche.



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B.A./B.Sc. Honours Part-III Examination, 2020

GEOGRAPHY

PAPER-XI

GEOGRAPHY OF INDIA

Time Allotted: 1 Hour

Full Marks: 25

The figures in the margin indicate full marks.

*The word limit mentioned below against each question to be strictly followed by the students:
2.5 marks-40 words / 4 marks-60 words / 6 marks-150 words / 10 marks-300 words.*

SECTION-I

Answer any one question

10×1 = 10

1. Give an account of the Spatial distribution pattern of rainfall in India. What are the controlling factors of climate in India? 6+4 = 10
2. Discuss the various population policies adopted in India since independence. 10

SECTION-II

Answer any one question

10×1 = 10

3. Divide gangetic plain into major physiographic divisions and mention their salient geomorphological characteristics. 10
4. Attempt a classification of soil of India and mention their distribution and significance on crop productivity. 10
5. Critically examine the causes of deforestation in India. 10
6. Account for the cause and nature of dispersal of cotton textile industry in India during the post independence period. 10

SECTION-III

7. Define the following terms (any *two*): 2.5×2 = 5
 - (a) Littoral forest
 - (b) Protected forest
 - (c) Bhabar
 - (d) Sprinkler irrigation
 - (e) Footloose industry.

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UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours Part-III Examination, 2020

GEOGRAPHY

PAPER-XII

NATURE AND METHODOLOGY IN GEOGRAPHY

Time Allotted: 1 Hour

Full Marks: 25

The figures in the margin indicate full marks.

The word limit mentioned below against each question to be strictly followed by the students:

2.5 marks-40 words / 3 marks-50 words / 4 marks-60 words / 6 marks-150 words /

7 marks-175 words / 10 marks-300 words.

SECTION-I

Answer any one question

10×1 = 10

1. What do you understand by the concept of dichotomy in Geography? Discuss the possibilistic approach as a critique of deterministic approach in Geography. 4+6 = 10
2. Differentiate between questionnaire and schedule. Prepare a model questionnaire for socio-economic survey. 4+6 = 10

SECTION-II

Answer any one question

10×1 = 10

3. Assess the contribution of Greek Scholars in the development of Geographical ideas during the ancient period. 10
4. Define the term Space. Mention the major characteristics of Space from the geographical point of view. 3+7 = 10
5. What are the various sources of collecting primary data and also mention the problems encountered during its collection? 10
6. Discuss the various sampling techniques used in the collection of data. 10

SECTION-III

7. Define the following terms (any *two*): 2.5×2 = 5
 - (a) Relative location
 - (b) General Geography
 - (c) Quota Sampling
 - (d) Secondary survey
 - (e) Neo-determinism.

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UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours Part-III Examination, 2020

GEOGRAPHY

PAPER-XIII

SOCIAL AND CULTURAL GEOGRAPHY

Time Allotted: 1 Hour

Full Marks: 25

The figures in the margin indicate full marks.

The word limit mentioned below against each question to be strictly followed by the students:

2.5 marks-40 words / 3 marks-50 words / 4 marks-60 words / 5 marks-100 words /

7 marks-175 words / 10 marks-300 words.

SECTION-I

Answer any one question

10×1 = 10

1. Divide the world into major racial groups and mention their characteristics and spatial distribution in various parts of the world. 4+3+3=10
2. Critically examine the causes of social inequality in different parts of the world. Suggest some remedial measures to reduce the inequality in the world. 10+5 = 10

SECTION-II

Answer any one question

10×1 = 10

3. Discuss the scope and content of Social Geography. 10
4. Define the term Culture. Write a short note on the different Cultural elements. 3+7 = 10
5. Write a short account on the characteristics of Social Space. 10
6. Briefly describe the various forms of rural settlement. 10

SECTION-III

7. Define the following terms (any *two*): 2.5×2 = 5
 - (a) Ethnic tribe
 - (b) Hamlet
 - (c) Cultural Contact
 - (d) Social distance
 - (e) Nasal index.

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B.A./B.Sc. Honours Part-III Examination, 2020

GEOGRAPHY

PAPER-XIV

Time Allotted: 1 Hour

Full Marks: 25

The figures in the margin indicate full marks.

*The word limit mentioned below against each question to be strictly followed by the students:
2 marks-30 words / 2.5 marks-40 words / 3 marks-50 words / 4 marks-60 words / 5 marks-100 words /
6 marks-150 words / 7 marks-175 words / 8 marks-220 words / 10 marks-300 words.*

Choose one Option from

- | | |
|-------------------|----------------------------------|
| Option-I | : AGRICULTURAL GEOGRAPHY |
| Option-II | : CARTOGRAPHY |
| Option-III | : ENVIRONMENTAL GEOGRAPHY |
| Option-IV | : POPULATION GEOGRAPHY |
| Option-V | : REGIONAL PLANNING |
| Option-VI | : RIVER GEOGRAPHY |
| Option-VII | : URBAN GEOGRAPHY |

Mention the chosen Option on the cover page of the Answer Book.

Option-I : AGRICULTURAL GEOGRAPHY

SECTION-I

Answer any one question

10×1 = 10

- | | | |
|----|--|----|
| 1. | Critically analyse the Von Thunen's model of agricultural land use. | 10 |
| 2. | Describe the characteristics of plantation farming with special reference to tea in India. | 10 |

SECTION-II

Answer any one question

10×1 = 10

- | | | |
|----|--|----|
| 3. | Give an account of scope and content of Agricultural Geography. | 10 |
| 4. | How does agriculture affect the riverine and lacustrine ecosystem? | 10 |
| 5. | Enumerate the characteristics of Indian Agriculture. | 10 |

6. Elucidate USDA methods of land capability assessment.

10

SECTION-III

7. Define the following terms (*any two*):

2.5×2 = 5

- (a) Mulching
- (b) Organic farming
- (c) Tissue culture
- (d) Habitat
- (e) Land Capability.

Option-II : CARTOGRAPHY

SECTION-I

Answer any *one* question

10×1 = 10

1. Derive the fundamental equations for simple conical projection with two standard parallels. Submit your calculation for this projection with the following data:

6+4 = 10

Parallels : 20°N – 80°N
 Meridians : 70°W – 130°W
 Interval : 10°
 Scale : 1 : 80,000,000

2. What is one degree method of theodolite? Find out the height of a tree (P) when the base is inaccessible and the instrument height is same in both stations.

4+6 = 10

Station	Object	Face	Vertical Circle Reading	
			VC	VD
A	P	L	13°40'	13°40'
		R	13°38'	13°38'
B	P	L	20°10'	20°10'
		R	20°12'	20°12'

When instrument height is 1.42 meter and distance between A & B is 9.00 meter.

SECTION-II

Answer any *one* question

10×1 = 10

3. Prove that the radius of any parallel of latitude ($r\phi$) on Polar Zenithal Orthographic Projection is $r\phi = R \cdot \cos \phi$, where R = Radius of the generating globe.
4. What are the sources of error in plane table survey?

10

10

5. Submit your calculation for the Mercator's Projection with following extensions: 10
- Parallels & Meridians : Whole World
Interval : 30° for meridians
 15° for parallels
R.F : 1:180,000,000
6. Define aerial photographs. What are the methods of acquiring aerial photographs? 3+7 = 10

SECTION-III

7. Define the following terms (*any two*): 2.5×2 = 5
- (a) Constant of cone
(b) Radial scale
(c) Nadir point
(d) Parallax bar
(e) Perspective projection.

Option-III : ENVIRONMENTAL GEOGRAPHY

SECTION-I

Answer any *one* question

10×1 = 10

1. Explain the basic principles of environmental conservation with suitable examples. 10
2. Define Environment Management Plan (EMP). Why should EMP become mandatory for any development project? Give relevant examples. 4+6 = 10

SECTION-II

Answer any *one* question

10×1 = 10

3. Discuss in detail the scope and content of Environmental Geography. 10
4. How does the exchange of organic and inorganic elements in ecosystem take place? Give suitable examples. 10
5. Discuss in brief the arsenic contamination in West Bengal induced by natural causes. 10
6. Write short note on relationship between population growth and resource crisis. 10

SECTION-III

7. Define the following terms (*any two*): 2.5×2 = 5
- (a) Biochemical Oxygen demand
 - (b) Potential energy
 - (c) Holistic environment
 - (d) Culprit Gases
 - (e) Biomass.

Option-IV : POPULATION GEOGRAPHY

SECTION-I

Answer any *one* question

10×1 = 10

1. Explain the concept of occupational structure. Give an account of the nature and trend of occupational structure in India. 3+7 = 10
2. Define the term migration. What are the determinants of population migration? Discuss the Everett S. Lee's migration theory. 1+3+6=10

SECTION-II

Answer any *one* question

10×1 =10

3. Give an account of any two sources of population data in India. 10
4. Write a short account of ethnic composition of population in India. 10
5. Discuss in brief the causes of rural-urban mortality differential in India. 10
6. What are the characteristics of population growth in developing world? 10

SECTION-III

7. Define the following terms (*any two*): 2.5×2 = 5
- (a) Fecundity
 - (b) Geometric progression
 - (c) Neo-natal mortality
 - (d) Marginal workers
 - (e) Physiological density.

Option-V : REGIONAL PLANNING

SECTION-I

Answer any *one* question

10×1 = 10

1. Discuss the nature and causes of regional imbalances in India with suitable examples. 5+5 = 10
2. Critically describe the W. Christaller's "Central Place theory". 10

SECTION-II

Answer any *one* question

10×1 = 10

3. Write a short note on the basic principles of regional planning. 10
4. Describe in brief the indicators of development. 10
5. Mention the steps taken by the Government for the development of backward areas in India. 10
6. Write about 'Panchayati Raj' with special reference to India. 10

SECTION-III

7. Define the following terms (*any two*): 2.5×2 = 5
 - (a) Growth foci
 - (b) Master plan
 - (c) Locational rent
 - (d) Threshold population
 - (e) Meso-region.

Option-VI : RIVER GEOGRAPHY

SECTION-I

Answer any *one* question

10×1 = 10

1. Define drainage basin. Discuss the reasons why drainage basin is regarded as a geomorphic unit. What is the significance of stream ordering in drainage basin study? 2+5+3=10
2. Discuss the effects of river embankments on river regime with suitable examples. 10

SECTION-II

Answer any *one* question

10×1 = 10

3. Define longitudinal profile. Discuss the importance of longitudinal profile of river. 2+8 = 10
4. Discuss the factors controlling river erosion. What are the major processes of river erosion? 5+5 = 10
5. Define channel pattern. Discuss the conditions under which braided pattern is developed in a river channel with examples. 2+8 = 10
6. Discuss the delta building processes. Why the Ganga-Brahmaputra has developed the largest delta in the world? 5+5 = 10

SECTION-III

7. Define the following terms (*any two*): 2.5×2 = 5
 - (a) Equilibrium profile
 - (b) Backswamp deposits
 - (c) Bed-material
 - (d) Bankfull discharge
 - (e) Watershed.

Option-VII : URBAN GEOGRAPHY

SECTION-I

Answer any *one* question

10×1 = 10

1. How does the process of urbanization in developing world differ from that of developed world? Discuss in brief the various factors leading to urbanization in developing world. 4+6 = 10
2. Attempt a functional classification of towns in India. Give suitable examples. 10

SECTION-II

Answer any *one* question

10×1 = 10

3. Discuss the factors leading to decay of the Urban Core. 10
4. Write a short note on morphology of Indian Cities. 10

5. What do you mean by inner and outer fringe? Describe their characteristics. 5+5 = 10
6. Mention the impact of urbanization on environment with particular examples from India. 10

SECTION-III

7. Define the following terms (*any two*): 2.5×2 = 5
- (a) Urban heat island
 - (b) Megalopolis
 - (c) Basic functions of urban centres
 - (d) Census towns
 - (e) Urban village.

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