

2018

M.Sc.

Part-II Examination

GEOGRAPHY

PAPER—VIII

Full Marks : 100

Time : 4 Hours

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

*Use separate Answer-scripts for each module.*

**Module-15**

**[ Coastal Management : Physical Aspects ]**

(Marks : 50)

**Group—A**

Answer any two questions.

2×5

1. Discuss the mechanism of formation of rip-cell on regular coast. Classify coast based on process involved. 10+5

2. How does wave modify in shallow water ? Examine the relevance of coastal study in the present context.

10+5

3. Illustrate the mechanism of wave refraction. Discuss the landforms developed by wave refraction.

10+5

4. How do you monitor processes in an open coast ? Classify wave breaker.

10+5

**Group—B**

Answer any *two* questions. 2×10

5. Compare between wave dominated and tide dominated coast. Define coast as a dynamic system unit.

5+5

6. Assess the ecological significance of mangrove.

10

7. What are the problems, a coast experiences as the result of global sea level rise ? How do you manage those problems.

5+5

8. Explain the roles of vegetation on the formation and stability of dune. What do you know about coral bleaching ?

5+5

**Module-16**

**[ Coastal Management : Human Aspects ]**

(Marks : 50)

**Group—A**

Answer any *two* questions. 2×15

1. Explain the significance of monitoring surface water in coastal Regulatory zones. What are the significant steps for monitoring surface water in the coastal areas ?

10+5

2. How far the Remote Sensing techniques can help in study of the chlorophyll in sea water ? Justify why the chlorophylls in sea water vary temporally and spatially.

10+5

3. Discuss the concept of Integrated coastal zone management. Analyse the role of ICZM in management of coastal hazards and coastal vulnerabilities.

5+10

4. Discuss the various measures for prevention of coastal erosion and sedimentation with special reference to the West Bengal coasts. Identify the impacts of sea level rise in Sundarban deltaic shores.

10+5

**Group—B**

Answer any *two* questions. 2×10

5. Explain the role of dredging and mangrove afforestation in improvement of navigation in the downstream of River Hooghly.

10



6. Assess the impacts of tourism in coastal degradations at Mondarmoni coast of West Bengal. 10
7. Elucidate the multiple effects of diminishing coastal sand dunes in alluvium coasts. 10
8. Write short notes (any two) : 2×5
  - (a) Coastal fisheries
  - (b) Significance of CRZ-IV
  - (c) Impact of Land reclamations
  - (d) Coastal pollution sources.

### Module-15

#### [Regional Planning and Urban Geography]

#### Group—A

Answer any two questions. 2×15

1. Account for the basic indicators of economic development of a region. Explain the principal causes of uneven development among the regions of India. 8+7
2. Critically discuss the Basic Needs Approach as proposed by EAJ Johnson and state its significance in the present day context. 10+5

3. Analyse the basic differences in the planning strategies between advanced and backward regions of India. Explain the key objectives of development outlined in the regional plans of Damodar Valley Region. 8+7
4. Elaborate David Slater's opinion on colonialism and spatial structure of underdevelopment. Bring out the inter-relationships between metropolis and satellites in colonial regime. 10+5

#### Group—B

Answer any two questions. 2×10

5. Explain the relevance of 'Agropolitan development' as a model for agrarian economies. 10
6. Account for the major shortcomings of urban Industrial Growth Pole Strategies. 10
7. Poverty, Population Growth and Environmental Hazards are the three key factors of regional underdevelopment—Justify. Briefly evaluate some important Poverty Alleviation Programs taken up for reduction of poverty level in India. 5+5
8. Establish with suitable examples that regional development in India depends largely on its industrial development. Why did large public sector industries fail to provide adequate spread effects of the regions of their location? 5+5



**Module-16****[Regional Development and Urban Geography]****Group—A**

Answer any *two* questions. 2×15

1. What is urban outgrowth ? Difference between urban fringe and rural urban continuation. What do you mean by urbanism ? 15
2. Critically discuss the European tradition of urban planning. How is it different from American tradition. 12+3
3. Account for the history of urbanization specially in British period and Post-Independence period of India. What are the important Characteristics of over urbanisation. 12+3
4. Discuss the different sources of pollution in urban area specially in Kolkata city. Why are crime prone areas concentrated in some pockets in Kolkata ? 15

**Group—B**

Answer any *two* questions. 10×2

5. State the history of development of metropolitan with special reform to Kolkata since 1947. What is urban Agglomerations ? 4+6
6. What do you understand by economic bases of the city ? Explain the role of non-basic functions for the urban economic development. 10
7. Mention the causes of the formation of urban heat island ? Highlight the environmental problems from the improper management of urban solid waste. 10
8. Explain the role of Remote Sensing and GIS in urban suitability mapping and planning ? 10