

**2017**

**M.Sc. Part-II Examination**

**GEOGRAPHY**

**PAPER—VIII**

*Full Marks : 100*

*Time : 4 Hours*

*The figures in the 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.*

1. Explain how sea waves and tide control the assemblages of coastal landforms with examples. Mention the significance of coastal cells. 10+5

2. Classify the wave induced currents. Explain the formation of symmetrical and asymmetrical ripples. What is beach cycle? 7+5+3
3. Distinguish between absolute and relative sea level rise. Discuss the impacts of sea level rise on coastal geomorphic system. Also write a short note on Holocene sea level rise. 3+7+5
4. What is biotidal accretion? Discuss the ecological significance of mangroves in coastal areas with examples. What are the major economic uses of sea weeds? 3+7+5

#### Group—B

Answer any *two* questions.

5. Define coast with illustrations. Describe the process of wave refraction. 5+5
6. Explain the process of evolution of coastal dune. 10
7. What is the Galloway Triangle? Classify coasts based on processes involved. 3+7
8. Assess the impacts of tropical cyclones on coast. How do you monitor wave on open coast? 5+5

#### Module-16

[Coastal Management : Human Aspects]

(Marks : 50)

#### Group—A

Answer any *two* questions. 2×15

1. Discuss the nature of Human utilization of coasts with special reference to navigation and fishing. Highlight the impacts of fish farming in the coastal environment. 10+5
2. Discuss the various sources and impacts of coastal pollution. What steps may be suggested to reduce the rate of coastal pollution? 10+5
3. Explain how far the application of Remote Sensing techniques can help to explore the marine fishing and to increase the amount of daily catch in Tropical seas. 10+5
4. Justify the role of coastal regulations in environmental protection of coastal zones in India. What is CRZ-V and VI?

#### Group—B

Answer any *two* questions. 2×10

5. Briefly explain the major environmental issues of West Bengal coasts. 10

6. Elucidate the impacts of land reclamation in the Sundarban. 10
7. Discuss the economic impacts of coastal erosion problem with reference to tourism and farm fishing in the low lying coasts. 5+5
8. Write short notes (any two) : 2×5
- Study of chlorophyll in water,
  - Concept of ICZM,
  - Turbidity of sea water,
  - Monitoring surface waters in CRZ-I.

### Module-15

[Regional Development and Urban Geography]

#### Group—A

Answer any two questions. 15×2

- Elaborate the strategies of regional development. How far those strategies for developing countries are different from those of developed countries? 10+5
- Account for the major environmental problems consequent to rapid industrialisation in a natural resource rich

- region. What strategies are outlined in the National Environmental Policy, 1986 to alleviate these problems? 10+5
- Bring out the goals and objectives of regional planning in India. Describe the programme components of any regional plan attempted for implementation in India. 8+7
  - State the objectives of Basic Needs Approach. What are the components of this approach? Elaborate its significance in rural and regional development. 5+5+5

#### Group—B

Answer any two questions. 10×2

- Differentiate Regional Planning from Regional Economic Development. Elaborate the tenets of Techno-Centric and Eco-Centric Approaches to regional development. 4+6
- Describe the method of identification of backward regions. What are the major constraints of development of such regions? 6+4
- Explain the relevance of Growth Pole Theory in regional development. Highlight the significance of this theory in regional planning in India. 5+5

8. Examine the role of agriculture in regional development. Assess the impact of agro-based and agro-oriented industries in regional development. 5+5

### Module-16

[Regional Development and Urban Geography]

#### Group—A

Answer any two questions. 15×2

1. Differentiate between census town and statutory town. Classify urban areas according to census population. What do you mean by urbanism? 4+6+5
2. Define urbanisation. Elucidate the changing patterns of Urbanisation in India. 3+12
3. Define metropolitan area. Discuss major features of recent trends of growth of metropolitan cities in India. 5+10
4. Discuss environmental problems of urban areas with special emphasis on pollution and health. 15

#### Group—B

Answer any two questions. 10×2

5. Distinguish between basic and non-basic function of urban areas. Mention the role of informal sectors in recent urban economy in India. 4+6
6. What do you mean by urban heat islands? Mention the major features of surface and atmospheric UHI. 3+7
7. Highlight the causes of poverty and homelessness in urban areas in India. 10
8. What is urban sprawl? Mention the role of Remote Sensing and GIS in Urban sprawl management. 2+8

