

2015

M.A./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.

Write the answer question of each module in separate books.

(Special Paper)

Module—15

(Coastal Management : Physical Aspects)

[Marks : 50]

Group—A

Answer any two questions : 2×15

- 1. Elucidate the mechanism of wave refraction. How does a rip cell form on regular coast? 8+7**

(Turn Over)

2. Classify coast based on processes involved. Discuss physical and ecological roles of sea-weeds. 5+10
3. Explain the significance of zooxanthellae in sustaining coral polyps. Assess the response of coral reefs to natural and anthropogenic threats with special reference to sea level rise. 5+10
4. Explain the major impacts of tropical cyclones on a coastal region. How can they be managed? 10+5

Group—B

Answer any *two* questions : 2×10

5. Identify the major environmental issues of the coast of West Bengal and explain their significance. 10
6. Elucidate ecological significance of mangroves. 10
7. Discuss in detail, the possible impact of sea level rise. 10

8. What are the principal techniques of evaluating long-term coast-line shift?

Module—16

(Coastal Management : Human Aspects)

[Marks : 50]

Group—A

Answer any *two* questions : 2×15

1. Discuss the sources and impacts of coastal pollution mentioning with management aspects for assessing the environmental significance of the coastal zone. 15
2. Give an account of the Human utilization of coasts with special reference to environmental impacts and management of navigation and fishing. 5+5+5
3. Explain the possible effects of Land reclamation and tourism development in the coastal zone with special reference to the Sundarban coast.

4. Discuss the application of Remote sensing technology in water quality analysis of surface waterbodies for the CRZ-I.

Group—B

Answer any *two* questions : 2×10

5. Enumerate the effects of global climate change on the coastal environment with special reference to physical and human systems of the coast. 10
6. How far the coastal regulations in India can protect the overdevelopment of the coastal zones? 10
7. Explain the methods of the study on chlorophyll content in coastal waters with Remote Sensing Technology. 10
8. Give an account on the concepts, techniques and application of integrated coastal zone management. 10

(Special Paper)

Module—15

(Regional Development)

[Marks : 50]

Group—A

Answer any *two* questions : 2×15

1. Account for the E. A. Johnson's theory of 'Market towers as rural growth Centres' as an alternative to Growth pole Strategy. 15
2. Highlight the major principles of regional planning with examples. How does the regional development policy set in developed country differs from that of developing country? 5+10
3. Explain how Boudeville presents the transformation nature of growth pole as a development strategy for urban and surrounding areas. 15

4. Discuss David Slater's opinion on 'colonialism and spatial structure of underdevelopment'. How was the inter-relationship between metropolis and satellites in colonial regime ? 10+5

Group—B

Answer any *two* questions : 2×10

5. Write a brief note on coastal erosion as a regional development issue with special reference to Digha Coast. 10
6. Differentiate the main features of under-developed economy from those of developed economy. 10
7. Explain the principal work components of MGNREGA and their effectiveness on community development in India. 10
8. Point out the merits and shortcomings of Growth pole strategy for regional development. 10

Module—16

(Urban Geography)

[Marks : 50]

Group—A

Answer any *two* questions : 2×15

1. What do you understand by rural-urban fringe ? Account for the characteristics of rural-urban fringe. How it is delineated ? 3+10+2
2. Define urban sprawl. Bring out its problems related to civic amenities, transportation and environmental pollution. 3+12
3. What do you understand by economic base of the city ? Describe the importance of informal sector in the urban economic growth. Give suitable examples. 5+10
4. Identify the principal components and sources of urban pollution in India. Account for the associated human health problems in the metropolitan cities of India. 7+8

Group—B

Answer any *two* questions : 2×10

5. Examine the influence of global scale 'trigger factors' in urban change. 10
 6. Assess the conceptual and methodological contributions of European scholars to urban planning. 10
 7. Describe the processes of metropolitan development in India. 10
 8. 'Urbanism as a way of life' — Explain this statement as postulated by wirth. 10
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