

2016

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. Define coast as a complex and dynamic system. How does relaxation time of coastal land-form vary according to their dimensions and spacing? 6+8

(Turn Over)

2. Classify wave breakers and discuss their characters. What are the determinants of variability in breaking?
10+5
3. Describe the mechanism of formation of a rotation tide. Define with illustration the amphidromic point. 10+5
4. Compare the coast of emergence with that of submergence. Assess the roles of dune vegetation in formation and stabilisation of dune.

Group—B

Answer any two questions :

5. Assess the significance of coastal study in the present context. 10
6. Explain the techniques for monitoring coastal processes. 10
7. Discuss the development of shore normal and long-shore currents. 10

8. Enumerate the factors that control beach composition and beach gradient. 10

Module—16

(Coastal Management : Human Aspects)

[Marks : 50]

Group—A

Answer any two questions : 2×15

1. Discuss the concepts and techniques of Integrated coastal zone Management. How far the ICZM policies are applied for the coasts of West Bengal and Odisha states?
10+5
2. Discuss the significance of various Coastal Regulatory Zones (CRZ). Explain the methods of monitoring surface water in CRZ areas. 5+10
3. Elucidate the impacts of coastal engineering structures along the alluvium coasts of Digha and Sundarban. How is chlorophyll in sea water measured? 5+5+5

4. Explain the major environmental issues, problems and their management in West Bengal coast. 5+5+5

Group—B

Answer any *two* questions : 2×10

5. Discuss the environmental impacts of coastal tourism with reference of Mondarmoni and Shankarpur coast. 10

6. What is the role of Remote Sensing techniques in monitoring marine fishing and form fishing activities? 10

7. Explain the physical and economical impacts of coastal erosion. 5+5

8. Write short notes : (any *two*) 2×5

(i) Coastal Pollution;

(ii) Impact of land reclamation;

(iii) Siltation problems of Hugli downstream section.

(iv) What is CRZ-V?

(Special Paper)

Module—15

(Regional Development)

[Marks : 50]

Group—A

Answer any *two* questions : 2×15

1. Give an account on the environmental issues associated with urbanization in developing countries like India. In what way it is different from the problems of developed countries. 15
2. Bring out the problems of regional disparities in India with possible measures of reduction of levels of such disparity. 15
3. State the short comings of Perroux's Growth Pole Theory as a model of balanced Regional development. What is its significance in the present day context. 12+3

4. Elaborate how does market economy influence level of development with special reference to Loschian Economic Landscape theory. 15

Group—B

Answer any two questions : 2×10

5. Discuss the concept of cumulative Causation Model of Gunnar Myrdal. 10
6. Elaborate the concept of Agropolitical development with proper example. 10
7. Differentiate balanced growth from unbalanced growth with examples from both type of countries. 10
8. Critically discuss the regional plans in India since Independence. 10

Module—16

(Urban Geography)

[Marks : 50]

Group—A

Answer any two questions : 2×15

1. Differentiate between census town and statutory town. Mention the functional classification of towns according to Ashoke Mitra. What do you mean by "urbanism"? 4+8+3
2. Differentiate 'Sprawl' from 'Smart growth'. Point out the principal features of different forms of urban Sprawl. 5+10
3. Highlight the transformation and shifting of metropolitan development in India since independence. 15
4. Elucidate major environmental problems of urban areas of West Bengal. 15

Group—B

Answer any *two* questions : 2×10

5. What do you mean by urbanisation? Discuss major features of recent trends of urbanisation in India. 2+8

6. What do you understand by the economic bases of the city? Give an account of the evolution and functions of different socio-economic classes in urban India. 2+8

7. How are urban heat islands formed? Mention some measures to mitigate the problems of urban heat island. 5+5

8. Why application of Remote Sensing and GIS is essential in urban planning and management? 10