

Ref. No.:

M. SC. GEOGRAPHY 2nd YEAR 2nd SEMESTER EXAMINATION 2022

Subject: Coastal Management

Paper: SC/GEOG-DSE/DE 221T-IIA

Time: Two Hours

Full Marks: 50

Answer any four questions selecting one from each unit

Unit-I: Processes and Forms of Coastal Landscapes

1. Differentiate between coast and shore. State the relationship between wave-length and wave-amplitude. Explain the processes of coastal erosion. 3+2+5
2. State the factors responsible for the randomness of the distribution of coral reefs within the tropical region. Discuss Darwin's theory of coral reef formation with suitable diagrams. 4+6

Unit-II: Human-Environment Interactions in Coastal Landscapes

3. 'The natural vegetation and the sand dunes of Ramakrishna beach of Vishakhapatnam are obliterated while both are preserved in the Yarada beach' - Elucidate your own views either to support urbanisation or to preserve the natural environment in the mentioned areas. 10
4. State the major drivers of coastal flooding with respect to Bengal coast. Mention the effects of coastal pollution. 6+4

Unit-III: Sustainable Management of Coastal Areas

5. Distinguish between *hard engineering* and *soft engineering techniques* for coastal management with suitable examples. Mention the major goals of the *integrated coastal zone management*. State the geo-environmental significance of beach nourishment. 4+4+2
6. Define sand dune stabilization with suitable illustrations. Make a critical appraisal for coastal reclamation. 4+6

Unit-IV: Coastal Management in India

7. How does coastal atomic power plant influence the environment? Give suitable examples. Briefly discuss about the environmental importance of Asia's largest saltwater lake. 4+6
8. Define CRZ. Discuss the major threats to the coastal ecosystem of West Bengal. 3+7

Internal Assessment

10