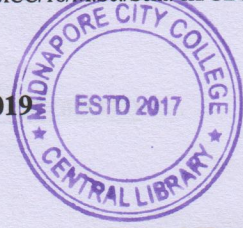


PG (NEW) CBCS
M.Sc. Semester-III Examination, 2019
GEOGRAPHY
Paper Code: GEO-303B
(COASTAL MANAGEMENT)



Full Marks : 40

Time: 2 Hours

Write the answer for each unit in separate sheet

GEO 303B.1: Coastal Processes

Marks: 20

GROUP-A

1. Answer any one of the following Questions: 1×8=8

- a) Elucidate the relevance of coastal study in reference to its applicability in west Bengal coast.
- b) Explain the mechanism of different wave breakers in relation to beach gradient.

GROUP-B

2. Answer any two of the following Question: 2×4=8

- a) Explain mechanism of formation of rotating tide with example.
- b) How does long-shore current develop. Explain with illustration?
- c) Explain the mechanism of cell circulation.
- d) How does reflecting coast differ from dissipating coast?

GROUP-C

3. Answer any two of the following Question: 2×2=4

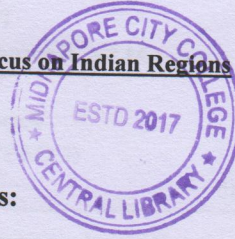
- a) Write the ecological roles of coastal sand dune.
- b) What are the causes of 'shifting of Sand dune'?
- c) What is shore normal current?
- d) How does texture of beach grains control beach gradient?

(P.T.O.)

(2)

GEO303B.2: Coastal Environments: Focus on Indian Regions

Marks: 20

GROUP-A**4. Answer any one of the following Questions:****1×8=8**

- a) Describe the role of tides and tidal currents in the formation and modification of deltaic shores with special reference to the Hugli River and Ichamati River estuaries in W.B.
- b) Account for the problems associated to reclamation in Indian Sundarban.

GROUP-B**5. Answer any two of the following Questions:****2×4=8**

- a) What is the role of sandy beaches and barrier coasts in the prospects of tourism and recreational activities?
- b) Classify the estuary based on mixing of water.
- c) Explain the geomorphic significance of carbonate shore platforms.
- d) Discuss briefly the morph dynamic behavior of coastal systems with feedback mechanisms.

GROUP-B**6. Answer any two of the following Questions:****2×2=4**

- a) What is Beach rock?
- b) What is the significance of scale in Geomorphology?
- c) Identify major human activities in modification of shoreline processes with example.
- d) What is resilience to coastal hazard?
