MCC/21/M.A.& M.SC./SEM-III/GEO/1
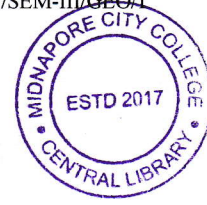
PG CBCS
M.A. /M.Sc. Semester-III Examination, 2022
GEOGRAPHY
PAPER: GEO 303B
(COASTAL MANAGEMENT)

Full Marks: 40   **Time: 2 Hours**

Write the answer for each unit in separate sheet

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.

UNIT: GEO 303B.1

COASTAL PROCESSES

Marks: 20

GROUP-A

1. Answer any **ONE** question: 1×8=8

   a. Assess the Beach Stage Model in the context of eastern coast of India.

   b. Elucidate the formation of rip cell under different situations in coastal environment.

GROUP-B

2. Answer any **TWO** questions: 2×4=8

   a. Establish the relationship of wave refraction with near shore bathymetry.

   b. Write about sedimentation process in tide dominated estuaries.

   c. Explain the relation between wave dynamics and beach gradient.

   d. Examine the morphodynamic response of ridge and runnel system on macro-tidal beach.

GROUP-C

3. Answer any **TWO** questions: 2×2=4

   a. Mention the significance of edge wave.

   b. Define coastal zone as a system unit.

   c. What is amphidromic point?

   d. Define tidal range.

(P.T.O)

UNIT: GEO 303B.2

COASTAL ENVIRONMENTS: FOCUS ON INDIAN REGIONS

Marks: 20

GROUP-A

1. **Answer any ONE question:**   1×8=8

    a. Examine the impact of human interventions on the tide dominated coast citing examples.

    b. Briefly discuss about the morphodynamic characters of the coastal region of West Bengal.

GROUP-B

2. **Answer any TWO questions:**   2×4=8

    a. Examine the tidal characters of Hooghly estuary.

    b. Distinguish tide dominated coast from wave dominated coast.

    c. What are the hydrodynamic variables in *Digha Mohana*?

    d. Account for the status of coastal erosion along Digha-Sankarpur Coast.

GROUP-C

3. **Answer any TWO questions:**   2×2=4

    a. Why are estuaries funnel shaped?

    b. What is Hydrographic Survey?

    c. Mention the status of rising sea level along Indian coast.

    d. What is hazard zonation mapping?

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