

Third Semester Examination-2018**M.Sc. GEOGRAPHY**

Paper Code:GEO-303

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-29

(Coastal Processes)

Marks: 20**GROUP-A**

- 1. Answer any one question from the following:** **1×8=8**
- a) How does wave modify in shallow water? What is wave refraction? **5+3=8**
- b) Illustrate the types of Beach stages in the domains of forces-response systems with suitable examples. **8**

GROUP-B

- 2. Answer any two questions from the following:** **4×2=8**
- a) What is long shore component (of coastal current) and how it can be measured? **4**
- b) Classify wave breaking in response to height/depth ratio. **4**
- c) Briefly explain formation of rip cell on regular coast. **4**
- d) Bring out the geomorphic significance of coastal dune. **4**

GROUP-C

- 3. Answer any two questions from the following:** **2×2=4**
- a) What is edge wave? **2**
- b) What is translator wave? **2**
- c) Define co-tidal line. **2**
- d) What is live storage? **2**

(Turn Over)

UNIT-30

(Coastal Environment: Focus on Indian Regions)

Marks: 20

GROUP-A

1. Answer any one question from the following: **1×8=8**

- a) Discuss the techniques for assessing coastal hazards and associated risks for hazard zonation along the coasts. **8**
- b) Critically explain the seasonal change of morphology in Beach-dune transition is respect to feedback mechanism of coastal system. **8**

GROUP-B

2. Answer any two questions from the following: **4×2=8**

- a) Briefly explain the origin of carbonate platforms of Andaman and Nicobar Islands. **4**
- b) Discuss the concept of estuarine hydrodynamics. **4**
- c) What are the major environmental impacts of land reclamation? **4**
- d) Why sandy coastal tracts of West Bengal are more prone to erosion? **4**

GROUP-C

3. Answer any two questions from the following: **2×2=4**

- a) What are the techniques of assessing beach lowering? **2**
- b) What is the significance of estuarine morphology in assessing estuarine hydrodynamics? **2**
- c) How does wave dominated coast favour in growth of tourism? **2**
- d) Why hazard zonation maps are required in the coastal zone? **2**