# First Semester Examination-2017

## M.Sc. GEOGRAPHY

Paper Code: GEO-102

**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-III

Oceanography

**Marks: 20**

**GROUP-A**

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

a. Identify the major sub divisions of the marine environment and discuss the characters of winds and ocean circulation in such sub-divisions of marine environment.

b. Elucidate different theories for the origin of coral reefs.

**GROUP-B**

**2. Answer any two question:** **2×4=8**

a. What are the different sources of marine sediment?

b. Explain the role of vegetations in the formation and growth stages of sand dunes along the alluvium coasts.

c. Identify the role of human impact on the coastline with special reference to Digha coast.

d. Explain the significance of repeat profiling across the sea beaches for monitoring coastal geomorphology.

**GROUP-C**

**3. Answer any two question:** **2×2=4**

a. Define T-S diagram.

b. What is Coral bleaching.

c. What is amphidromic point?

d. What Poly Manganese Nodules are available in the deep sea bed of Indian Ocean?



*(Turn Over)*



### UNIT- IV

Hydrology

**Marks: 20**

**GROUP-A**

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

a. Compare different methods of estimating magnitude-frequency of hydrological events with suitable examples.

b. Illustrate the estimation of stream discharge using area-velocity method.

**GROUP-B**

**2. Answer any two question:** **2×4=8**

a. Mention the steps of constructing a unit-hydrograph.

b. Compare hydrological attributes of confined and unconfined aquifers?

c. Mention processes of estimating evapotranspiration.

d. Asses the possible impacts of global climate change on regional hydrology.

**GROUP-C**

**3. Answer any two question:** **2×2=4**

a. Define inflection point on hydrograph.

b. Define lag time of hydrological phenomena.

c. What is storage co-efficient?

d. What is cascading system in a drainage basin?

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