

**2017**

**M.A./M.Sc.**

**1st Semester Examination**

**GEOGRAPHY**

**PAPER—GEO-102**

**Subject Code—29**

*Full Marks : 40*

*Time : 2 Hours*

*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.*

*Illustrate the answers wherever necessary.*

**Write the answer Questions of each Unit in separate books**

**Unit-III**

**(Oceanography)**

**Group—A**

1. Answer any one question from the following : 1×8
- (a) Discuss the tidal characteristics which play a significant role in marine processes to influence the shallow sea environment.

*(Turn Over)*

- (b) Explain the origin and role of coral reefs as coastal habitat in the oceanic islands.

### Group—B

2. Answer any *two* from the following questions : 2×4
- (a) What are the factors to build up coastal sand dunes ?
  - (b) Briefly explain the characteristics of watermasses and their properties.
  - (c) Identify the sediment types and their sources in the sea.
  - (d) What are the human impacts on the coast line.

### Group—C

3. Answer any *two* from the following questions : 2×2
- (a) Define Exclusive Economic Zones (EEZ).
  - (b) Identify the various types of mineral resources of the ocean.
  - (c) What is the significance of sand budget ?
  - (d) What is the biological function of mangrove swamps ?

**Unit-IV****(Hydrology)****Group—A**

1. Answer any *one* from the following questions : 1×8
- (a) Examine hydrological importance of a hydrograph. How does hydrograph depend on basin shape?
  - (b) Elucidate cascading and morphological system in a basin scale.

**Group—B**

2. Answer any *two* questions : 2×4
- (a) Assess the importance of hydrological frequency analysis.
  - (b) Discuss the normal ratio method and Thiessen network method for precipitation analysis.
  - (c) Bring out the factors controlling ground water recharge and discharge.
  - (d) How is hydrostatic pressure associated to confined aquifer?

**Group—C**

3. Answer any *two* questions : 2×2
- (a) How does capillary rise depend on soil texture ?
  - (b) Define basin-lag time.
  - (c) What is known as dependable rainfall ?
  - (d) Mention two advantages of Double ring infiltrometer.
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