

2016

M.A./M.Sc.

1st Semester Examination

GEOGRAPHY

PAPER—GEO-102

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 from the following questions : 1×8

- (a) Discuss the role of saltmarshes and mangrove swamps as dynamic coastal habitants.

(Turn Over)

- (b) Explain the characteristics of major subdivisions of the marine environment with reference to ocean circulation.

Group—B

2. Answer any *two* from the following questions : 2×4
- (a) Identify the human impact on the coast line.
 - (b) What is the role of EEZ in exploitation of ocean resources ?
 - (c) Explain the geomorphology of coastal dunes.
 - (d) Identify the sources of sediment types in the sea.

Group—C

3. Answer any *two* from the following questions : 2×2
- (a) What are the properties of water masses ?
 - (b) Define tidal inlets.
 - (c) What is the origin of tide ?
 - (d) Identify the characters of cliffed coasts.

Unit-IV
(Hydrology)

Group—A

1. Answer any *one* from the following question : 1×8
- (a) Discuss with illustration the steps involved in constructing unit hydrograph for a drainage basin. 8
- (b) Discuss with illustration, the methods of estimating evapotranspiration in different landuse / landcover conditions. What is basin-lag time? 6+2

Group—B

2. Answer any *two* from the following questions : 2×4
- (a) Explain hydrological systems with examples.
- (b) Explain Darcy's law of groundwater movement.
- (c) How does confined aquifer differ from unconfined aquifer?
- (d) How do you separate base flow from total discharge?

Group—C

3. Answer any *two* from the following questions : 2×2
- (a) Define residence time of water in a storage pool.
 - (b) What do you mean by inflection point on rising limb of a hydrograph ?
 - (c) How does detention storage differ from retention storage ?
 - (d) Define hygroscopic moisture.
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