

POST-GRADUATE COURSE

Term End Examination — December, 2014/June, 2015

GEOGRAPHY

Paper – I B

(Hydrology and Oceanography)

Time : 2 Hours

Full Marks : 50

(Weightage of Marks : 80%)

Special credit will be given for accuracy and relevance in the answer. Marks will be deducted for incorrect spelling, untidy work and illegible handwriting. The weightage for each question has been indicated in the margin.

Answer any *three* questions from Section A selecting at least *one* from each Unit.

Question No. 7 in Section B is compulsory.

Section A

Unit – I

(Hydrology)

1. Make a discussion on how a Rating curve is prepared. Account for its application. 6 + 4
2. State how a drainage basin is delineated. Discuss the suitable processes of drainage basin management. 4 + 6
3. Give the definition of the term 'Wetland'. Examine the present environmental conditions of the wetlands around the metropolitan city of Kolkata in West Bengal.

3 + 7

Unit – II

(Oceanography)

4. Examine the heat budget of the oceans. Account for the distribution of water in hemispheres. 6 + 4
5. Describe the environmental conditions in which coral reefs develop in the ocean water. Elucidate reasons of gradual depletion of coral reefs around the world in the present day. 6 + 4
6. Assess the morphological characteristics of submarine canyons. Account for the extent of resources available from the marine environment. 5 + 5

Section – B

7. Write short notes on any *five* of the following : 4 × 5 = 20
 - a) Rating curve
 - b) Infiltration process
 - c) T-S diagram
 - d) Storm hydrograph
 - e) Offshore zone
 - f) Mid-oceanic ridge
 - g) Permanent aquifer
 - h) Wetlands
 - i) Salinity in ocean water
 - j) Watershed.