

## POST-GRADUATE COURSE

Term End Examination — June, 2017

## 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.

$10 \times 3 = 30$

## Section A

## Unit – I

## ( Hydrology )

1. Make a discussion on the Global Hydrological cycle. How does it differ from the Basin Hydrological cycle ?
2. Describe how a drainage basin is delineated. How is drainage density measured ?
3. Discuss why the wetlands are considered important for environment and classify wetland according to their types.

## Unit – II

## ( Oceanography )

4. Account for the distribution of temperature in the ocean water and examine the heat budget of the oceans.
5. Describe the ideal environmental conditions under which coral reefs are formed and examine the causes of their depletion.
6. Elucidate the morphological characteristics of the submarine canyons. What are the major available resources of the oceans ?

## Section – B

7. Write short notes on any *five* of the following :  $4 \times 5 = 20$ 
  - a) Distinguish between continental shelf and continental slope
  - b) East Kolkata wetland
  - c) Ooze
  - d) Meteoric water
  - e) Storm hydrograph
  - f) T-S diagram
  - g) Types of coral reef
  - h) Mid-oceanic ridge
  - i) Rating curve
  - j) Offshore zone.