

Total No. of Printed Pages—3

6 SEM TDC DSE GGR (CBCS) 3 (H)

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(June/July)

GEOGRAPHY

(Discipline Specific Elective)

(For Honours)

Paper : DSE-3

(Hydrology and Oceanography)

Full Marks : 80

Pass Marks : 32

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following questions as directed :

1×8=8

- (a) What do you mean by run-off?
- (b) Mention any two inputs in the hydrological system.
- (c) How is discharge of a river calculated?

(2)

(d) Which is the deepest trench in the world?

(e) Coral reefs developed along the continental margins or along the island are called _____.

(Fill in the blank)

(f) The position of the sun, the moon and the earth in a straight line is called _____.

(Fill in the blank)

(g) What is a neap tide?

(h) Which of the following influences the oceanic salinity?

(i) Land

(ii) Wind

(iii) River

(Choose the correct answer)

2. Write short notes on any four of the following : 4×4=16

(a) Factors affecting run-off

(b) Systems approach in hydrological studies

(c) Causes and impact of drought in India

- (d) Factors affecting distribution of temperature of ocean water
- (e) Characteristics of river basin

3. Answer any *four* of the following long-type questions : 14×4=56

(a) What is a hydrological cycle? Describe the anthropogenic impact on the hydrological cycle. 4+10=14

(b) Write on the causes and impact of flood with special reference to the river Brahmaputra of Assam. 7+7=14

(c) What are coral reefs? How do they evolve? Explain the significance of coral. 3+11=14

(d) Classify the major relief features of the Atlantic ocean. Explain the distribution of Atlantic ocean current. 7+7=14

(e) What is the source of salt in sea water? Write about the horizontal distribution of oceanic salinity. 4+10=14

(f) Explain the formation of tides in oceans. Why do tidal ranges and periods vary spatially? Explain the different types of tides. 4+3+7=14