

U.G. 5th Semester Examination - 2025**GEOGRAPHY****[MAJOR-VI]****Course Code : GEOG-M-T-6****(Hydrology and Oceanography)****[NEP-2020]**

Full Marks : 60

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **ten** questions: $2 \times 10 = 20$
- i) What is meant by aquifer?
 - ii) Why does water table fluctuate?
 - iii) Mention the use of unit hydrograph.
 - iv) What is rating curve?
 - v) Why is water budget necessary for water management in a flood-prone area?
 - vi) Write any two advantages of watershed management.
 - vii) What is ocean trench?

- viii) Why is ocean water saline?
- ix) What is coral bleaching?
- x) Why does ocean water move?
- xi) Give two examples of warm and cold ocean currents each.
- xii) Define pelagic deposits.
- xiii) What happens when cold and warm ocean currents meet?
- xiv) What is the reason for the *Dead Sea*?
- xv) Highlight the causes of tides.

2. Answer any **four** questions: $5 \times 4 = 20$

- i) Elucidate the scope of hydrology.
- ii) Analyse the factors influencing the surface run-off cycle.
- iii) Identify the threats of groundwater overutilization.
- iv) Evaluate the advantages of T-S diagram.
- v) Outline the Indian Ocean currents with a diagram.
- vi) Why are marine resources economically significant?

3. Answer any **two** questions: $10 \times 2 = 20$
- i) Bring out the concept and mechanism of global hydrological cycle with relevant diagram.
 - ii) Explain the methods and significance of rainwater harvesting.
 - iii) Make a comparison between the bottom reliefs of Atlantic and Pacific oceans with necessary illustrations.
 - iv) Discuss the favourable conditions and types of coral reefs.