

2025

GEOGRAPHY — HONOURS

Paper : DSCC-9

(Hydrology and Oceanography)

Full Marks : 75

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Group - A

Answer **any ten** questions (each within **50** words).

2×10

1. What is hydrological cycle?
2. Define drainage basin.
3. Differentiate between porosity and permeability of rocks.
4. What is water harvesting?
5. Define aquifer.
6. What is groundwater table?
7. Define infiltration.
8. Classify water mass on the basis of depth.
9. What is T-S diagram?
10. Define salinity.
11. What is Thermohaline circulation?
12. Define the term pycnocline.
13. What is coral bleaching?
14. Mention any two important roles of ocean currents.

Please Turn Over

(4076)

Group - B

Answer **any five** questions (each within **125** words).

5×5

15. Why is drainage basin considered as a hydrological unit?
16. Distinguish between vadose zone and phreatic zone.
17. How do evaporation and transpiration control surface run-off?
18. Distinguish between transverse and longitudinal wave.
19. State the various objectives of watershed management.
20. Differentiate between spring tide and neap tide.
21. Write a short note on marine resource potential.

Group - C

Answer **any two** questions (each within **500** words).

15×2

22. Explain the physical and biological role of global hydrological cycle.
 23. Discuss with diagrams the physical properties of ocean water.
 24. Analyse in detail, the factors controlling recharge and discharge of groundwater.
 25. Examine the causes and implications of sea level changes.
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