Ref. No.: SC/GEOG/UG/DSE/TH/01/2023

B.Sc. 3rd Year 1st Semester Examination, 2023 Geography Course Code: SC/GEOG/UG/DSE/TH/01

Paper: Hydrology and Oceanography (DE501T)

Time:	Two hours	Full	Marl	ks: 5	0

GROUP A

Answer any two questions

10x2 = 20

- Describe the major relief features of ocean floor with suitable diagrams.
 Attempt a classification of coral reefs. What are the major threats to their existence?
 Mention the factors affecting groundwater movement. Explain Darcy's law. What is mean by hydraulic conductivity?
- 4. Discuss the factors controlling groundwater recharge. Describe the importance of remote sensing and GIS in the identification of groundwater potential recharge zones.

 5+5

GROUP B

Answer any two questions

5x2=10

- 5. Briefly discuss the causes of sea level change.
- 6. What do you mean by sustainable use of marine resources?
- 7. Describe the components of the hydrograph. What is a unit hydrograph?
- 8. Briefly discuss the methods of runoff estimation from a catchment.

GROUP C

Answer any five questions

2x5=10

- 9. What do you mean by watershed management?
- 10. What are the types of ocean tides?
- 11. Discuss the importance of T-S Diagram.
- 12. Explain the importance of drainage basin as a hydrological unit.
- 13. Differentiate aquitard from aquiclude.
- 14. 'Clay has high porosity but low permeability'- justify it.
- 15. Define base flow.
- 16. What do you mean by hygroscopic water?

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