

**2024**  
**B.A./B.Sc.**  
**Fourth Semester**  
 CORE – 8  
**GEOGRAPHY**  
*Course Code: GGC 4.11*  
 (Hydrology & Oceanography)

*Total Mark: 70*  
*Time: 3 hours*

*Pass Mark: 28*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. Describe the meaning, nature, and scope of hydrology. 2+5+7=14
2. Write notes on the following: 3½×4=14
  - (a) Precipitation
  - (b) Evaporation
  - (c) Infiltration
  - (d) Surface run-off

**UNIT-II**

3. What is drainage basin? Explain the hydrological cycle in a drainage basin with the help of a neat diagram. 2+12=14
4. Discuss the causes and consequences of human activities on hydrological system. 14

**UNIT-III**

5. Define phreatic water. Highlight the occurrence of ground water with suitable diagram. 2+8+4=14
6. In own words state some measures of how best we can manage groundwater before its deterioration become irreversible. 14

## UNIT-IV

7. What do you mean by oceanography? Explain the surface configuration of the ocean floor with a labelled diagram. 2+10+2=14
8. What is salinity? Enumerate the factors influencing the distribution of ocean salinity. Also explain the horizontal distribution of salinity. 1+5+8=14

## UNIT-V

9. Mention some conditions necessary for the growth of coral polyps. Briefly present the different types of coral reefs with diagram. 4+10=14
10. Critically analyse the non-subsidence theory of Murray. 14
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