2022

B.A./B.Sc.

Fourth Semester

CORE - 10

GEOLOGY

Course Code: GLC 4.31 (Hydrogeology)

Total Mark: 70 Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Define surface run-off. Explain the components of drainage basin.

2+12=14

2. Write notes on the following:

 $7 \times 2 = 14$

- (a) Infiltration
- (b) Artisan aquifer

UNIT-II

- 3. Define absolute permeability. Explain how it allows fluids to flow through its pores. 2+12=14
- 4. Write notes on the following:

 $7 \times 2 = 14$

- (a) Hydraulic conductivity
- (b) Turbulent groundwater flow

UNIT-III

5. Explain the use of electrical resistivity method in groundwater exploration.

14

6. Describe the basic concept of well water hydraulics.

14

UNIT-IV

7.	With the help of graphical plot explain the method to interpret groundwater quality.	14
8.	Explain the chemical property of water.	14
	UNIT-V	
9.	How is rainwater harvested? Explain.	14
10.	Describe the basic concept of water balance studies.	14