

Roll No. ....

Total Pages : 2

**CMDQ/D-23**

**5199**

**GEOHYDROLOGY**

Paper–G–301

Time allowed : 3 Hours]

[Maximum Marks : 75

**Note :** Attempt **five** questions in all, selecting **one** question from each unit. Questions No. **1** is compulsory. All questions carry equal marks.

**Compulsory Question**

1. Brief the following:

- (i) Hydrogeology           (ii) Transmissivity  
(iii) Rotary drilling

**UNIT–I**

2. What are Springs? Discuss characteristics of various Springs.  
3. Give a detailed account of water balance studies.

**UNIT–II**

4. Write a note on aquifer performance tests.  
5. Can we determine permeability by discharge well method? If yes, explain.

**UNIT–III**

6. Define and discuss aquifers in detail.

7. Comments on the following:  
(a) Development of water well.  
(b) Consumptive use of groundwater.

**UNIT–IV**

8. Discuss resistivity method for groundwater exploration.  
9. Comments on the following:  
(a) Electric profiling.  
(b) Physical properties measured for groundwater exploration.