

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.