

M.Sc. (Part-II) Semester-III (CBCS) Examination

**GEOLOGY
HYDROGEOLOGY**

Paper-XI

Time : Three Hours]

[Maximum Marks : 80

N.B.:— (1) All questions are compulsory and carry equal marks.

(2) Draw neat sketches wherever necessary.

1. Write in brief on the following :

- (a) Types of ground water
- (b) Porosity and Permeability

OR

- (c) Runoff and infiltration
- (d) Evapotranspiration.

2. What is Pumping test ? Describe in brief about various pumping methods applied to confined aquifers.

OR

Write in detail about various methods, types, design and construction of the wells.

3. Write in brief on the following :

- (a) Physical quality parameters
- (b) Sodium absorption ratio

OR

- (c) Permeability index
- (d) Quality standards for domestic and agriculture use.

4. Describe in detail various ground water provinces of India.

OR

Write in detail about surface geophysical methods of ground water exploration.

5. Write in brief on the following :

- (a) Methods of artificial recharge
- (b) Conjunctive use of ground water

OR

- (c) Watershed management
- (d) Recharge-discharge budget.

