



M.Sc. IV Semester Degree Examination, Sept./Oct. - 2024

APPLIED GEOLOGY

Groundwater Exploration

(NEP)

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** of the following questions, each question carries **equal** marks.

1. Explain the following : 14
 - (a) Define Groundwater ? Explain the methods of recharging.
 - (b) Types of aquifers and parameters.

2. Add a note on : 14
 - (a) Vertical distribution of groundwater.
 - (b) Darcy's law.

3. Answer the following : 14
 - (a) Remote sensing in groundwater exploration.
 - (b) Groundwater protection.

4. Discuss the following : 14
 - (a) Chemical standards for drinking and irrigational water.
 - (b) Pumping tests.

5. Write a note on : 14
 - (a) Groundwater contamination.
 - (b) Groundwater modeling.

6. Explain the following : 14
 - (a) Groundwater quality.
 - (b) Hydrogeomorphological mapping.

7. Discuss the following : 14
 - (a) Ghyben Herzberg relation remedial measures.
 - (b) Well characteristics by simple graphical methods.

8. Write a short note on : 14
 - (a) Hydrological properties of rocks.
 - (b) Types of wells.
 - (c) Porosity and permeability.

