## 

Sl. No.

## M.Sc. IV Semester Degree Examination, October - 2023

## **APPLIED GEOLOGY**

## **Groundwater Exploration**

(NEP)

Time	e: 3 Hours	Maximum Marks: 70
Note	e: Answer any five of the following questions, each question car	ries <b>equal</b> marks.
1.	Explain the following:  (a) Hydrological cycle.  (b) Groundwater flow and recharge.	14
2.	<ul><li>Add a note on:</li><li>(a) Groundwater exploration techniques.</li><li>(b) Vertical distribution of groundwater.</li></ul>	14
3.	Answer the following:  (a) Types of aquifer and its parameters.  (b) Role of toposheet and remote sensing in groundwater	14 exploration.
4.	Discuss the following:  (a) Groundwater quality.  (b) Hydro geochemical facies.	14
5.	Write a note on: (a) Groundwater protection. (b) Darcy law.	14
6.	Explain the following: <ul><li>(a) Well types.</li><li>(b) Groundwater prospecting.</li></ul>	14
7.	Discuss the following:  (a) Application of groundwater modelling.  (b) Standards of drinking and irrigation water.	14
8.	Write a short note on:  (a) Pumping test.  (b) Exploratory bore well.  (c) Specific capacity of wells.	14