



**Government College (Autonomous), Rajamahendravaram
(Affiliated to Adikavi Nannaya University)**

SEMESTER-V PAPER: VII

**Ground Water: Geology Exploration Model
Question Paper**

Time: 2 1/2 Hours

Max.Marks: 50

Note: Answer any Four Questions All questions carry equal marks. 4 X 8=32 M

PART- A

1. Define Hydrology and Hydrogeology. Explain the scope and applications of Hydrogeology.
OR
2. Define Hydrologic Cycle and describe the different process involved with the help of a neat diagram.
3. Give an account of vertical distribution of Ground water.
OR
4. What is an aquifer? Describe various types of aquifer.
5. Explain the rock properties of an aquifer of ground water.
OR
6. Explain Darcys law and its applications.
7. Describe briefly about Quality of Groundwater and various parameters.
OR
8. Explain the concept of Watershed management.

PART – B

Answer any SIX Questions. Each question carry 3 marks

6 x 3 = 18 M

9. What are the Forms Of Ground Water
10. Define Porosity And Permeability?
11. Define Specific yeild & Specific Retention
12. What is the Role of Geologist in Hydrogeology?
13. Describe about suitability of Groundwater for drinking purpose
14. What is Perched aquifer
15. Groundwater provinces of India
16. List the methods of Groundwater investigations