

24P247

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Name : .....

Reg. No : .....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2025**

(CBCSS-PG)

(Regular/Supplementary/Improvement)

**CC19P GEL2 C07 - HYDROGEOLOGY**

(Applied Geology)

(2019 Admission onwards)

Time: 3 Hours

Maximum: 30 Weightage

**Part-A**

Answer any *four* questions. Each question carries 2 weightage.

1. Specific Yield.
2. Groundwater Flow.
3. What is the principle of Geophysical Exploration.
4. What is an aquifer.
5. Driven Well.
6. Problems related Over Exploitation.
7. The Precambrian Crystalline Province.

**(4 × 2 = 8 Weightage)**

**Part-B**

Answer any *four* questions. Each question carries 3 weightage.

8. Hydrologic Cycle with neat sketches.
9. Water table contour maps.
10. Darcy's Law and its experimental verification.
11. Quality criteria for domestic, irrigation and industrial purposes.
12. What are the different drilling methods of well.
13. Explain Artificial Recharge.
14. Groundwater developments in urban areas.

**(4 × 3 = 12 Weightage)**

**Part-C**

Answer any *two* questions. Each question carries 5 weightage.

15. What is an Aquifer? Discuss the classification of Aquifers.

16. Describe the various Hydrological Properties of rocks with suitable figures and examples.
17. Evaluation of aquifer parameters using different methods.
18. Give an account of saline water intrusion in coastal aquifers. Add a note on the prevent and control methods of saline water intrusion.

**(2 × 5 = 10 Weightage)**

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