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Name: .....

Reg.No: .....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2024**

(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 Retention.
2. Storage Coefficient.
3. Confined Flow Condition.
4. Radioisotopes in Hydrogeological studies.
5. Well Logging.
6. Jetted well.
7. Groundwater problem with Tunnel Construction.

**(4 × 2 = 8 Weightage)**

**Part-B**

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

8. Hydrological properties of rocks.
9. Concept of barometric and tidal efficiencies.
10. Evaluation of aquifer parameters using Jacob and Walton Methods.
11. Discuss Theis Method and its significance.
12. Problems of arsenic and fluoride in groundwater.
13. What is Wenner method? Explain with a neat circuit diagram.
14. Describe various Groundwater Provenances of India.

**(4 × 3 = 12 Weightage)**

**Part-C**

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

15. What is Hydrologic Cycle? Explain with a neat diagram.
16. Write an essay on physical and chemical properties of groundwater for various uses and graphical representations of water quality data.
17. Explain Remote Sensing Methods used for the Groundwater Exploration.
18. Exploration, drilling and well completion steps.

**(2 × 5 = 10 Weightage)**

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