

22P247

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Name:

Reg.No:

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2023

(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. Juvenile water.
2. Porosity.
3. Unconfined Flow Condition.
4. Stiff Diagram.
5. Well Logging.
6. Sonic Logging.
7. What is Stream Channel Method?

(4 × 2 = 8 Weightage)

Part-B

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

8. Define water table and peizometric surface with neat sketches.
9. Water table contour maps.
10. Evaluation of aquifer parameters using Jacob and Walton Methods.
11. Discuss Walton Method and its significance.
12. Radioisotopes in Hydrogeological studies.
13. Compare Geophysical Method and Remote Sensing over Groundwater Exploration.
14. Describe different types of well.

(4 × 3 = 12 Weightage)

Part-C

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

15. Explain different methods of permeability determination in laboratory and field.

16. What are the causes of saline water intrusion into coastal aquifers? Explain the Ghyben-Herzberg relationship between saline water and freshwater.
17. Explain different types of Groundwater Exploration methods.
18. Explain Groundwater Provenances of India.

(2 × 5 = 10 Weightage)
