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Name:

Reg.No:

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2022

(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. Precipitation.
2. Artesian Well.
3. Thiern Method.
4. USSL Diagram.
5. Well Logging.
6. Rotary Method.
7. What is Ditch and Furrow Method?

(4 × 2 = 8 Weightage)

Part-B

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

8. Subsurface movement and vertical distribution of groundwater.
9. Concept of barometric and tidal efficiencies.
10. Evaluation of aquifer parameters using Jacob and Walton Methods.
11. Define cone of depression with neat sketches.
12. Radioisotopes in Hydrogeological studies.
13. What is Resistivity Methods.
14. Types of well.

(4 × 3 = 12 Weightage)

Part-C

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

15. Describe different types of Aquifers and its Hydrological Properties.
16. What are the causes of saline water intrusion into coastal aquifers? Explain the Ghyben-Herzberg relationship between saline water and freshwater.
17. Briefly explain Remote Sensing method for Groundwater Exploration.
18. Groundwater problems related to construction works.

(2 × 5 = 10 Weightage)
