

**FIFTH SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025**

(CBCSS - UG)

(Regular/Supplementary/Improvement)

**CC19UGE05D03 - GROUND WATER EXPLORATION AND MANAGEMENT**

(Geology - Open Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

**Part A (Short answer questions)**Answer ***all*** questions. Each question carries 2 marks.

1. Run off and Infiltration.
2. Soil water zone.
3. Aquifuge.
4. Fractured crystalline rock aquifer.
5. Electrical resistivity method.
6. Resistivity meter.
7. Differentiate dug well and tube well.
8. Well lining methods.
9. Lining of open well with dry rubble packing.
10. Total dissolved solids.
11. Causes of depletion of groundwater.
12. Groundwater harvesting.

**(Ceiling: 20 Marks)****Part B (Short essay questions - Paragraph)**Answer ***all*** questions. Each question carries 5 marks.

13. Importance of structural features in groundwater exploration.
14. Validate the qualities of laterite as an aquifer.
15. Explain the major ions of groundwater and their sources.
16. Describe drinking water quality standards of BIS.

17. What are the diseases and virological aspects of groundwater and its remedial measures?
18. Detail on groundwater management practices.
19. Remedial measures of saltwater intrusion.

**(Ceiling: 30 Marks)**

**Part C (Essay questions)**

Answer any ***one*** question. The question carries 10 marks.

20. Explain role of remote sensing in groundwater exploration.
21. Details on cloud seeding.

**(1 × 10 = 10 Marks)**

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