

19U526

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Name:

Reg.No:

FIFTH SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2021

(CBCSS - UG)

CC19U GEO5 D03 - GROUND WATER EXPLORATION AND MANAGEMENT

(Geology - Open Course)

(2019 Admission - Regular)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Confined aquifer.
2. Porosity.
3. Collector well.
4. Vertical electrical sounding.
5. Different types of pumping test.
6. Cloud Seeding.
7. Well Screening.
8. Water related diseases.
9. Define watershed.
10. Connate water.
11. Effects of saltwater intrusion.
12. Need for groundwater harvesting.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Briefly explain the hydrological cycle with a neat diagram.
14. Explain briefly groundwater provinces.
15. Explain Wenner and Schlumberger array with neat diagram.
16. Differentiate Dug well, Tube well and Jetted wells.
17. Explain Surging and acidizing.
18. Explain the chemical properties of drinking water.
19. Explain different types of artificial recharge techniques.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Explain the vertical distribution of groundwater with a neat diagram.
21. Give note on well design and development

(1 × 10 = 10 Marks)
