

21U528

(Pages: 2)

Name:

Reg.No:

FIFTH SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U GEO5 D03 - 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. Confined aquifer.
2. Specific retention.
3. Xerophytes and Halophytes.
4. Schlumberger electrode arrangement.
5. What you mean by well design?
6. Irrigation water quality parameters.
7. Temperature and odour of water.
8. Water borne diseases.
9. Cause of groundwater pollution.
10. Himalayan High land Province.
11. Use of cloud seeding.
12. Artificial recharge methods.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. What are the different types of water, based on their origin?
14. Explain Zone of aeration and Zone saturation in details with diagram.
15. Profiling versus sounding.
16. What are the uses of surging and acidizing in well development?

17. Methodologies involved in carrying out the pumping test.
18. How does water quality varies in different rock types explain?
19. Describe artificial recharge techniques.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Explain Darcy's law with respect to groundwater with neat diagram.
21. Give notes on dugwells , tube wells, jetted wells, infiltration galleries and collector wells.

(1 × 10 = 10 Marks)
