

20U528

(Pages: 2)

Name:

Reg.No:

FIFTH SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2022

(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. Perched water table.
2. Permeability.
3. Xerophytes and Halophytes.
4. Electrical resistivity and conductivity.
5. Pumping test.
6. Expand WHO and BIS.
7. Temperature and odour of water.
8. Water borne diseases.
9. Define river basin.
10. Cenozoic province.
11. Ghyben-herzberg equation.
12. Advantages of groundwater harvesting.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Explain Zone of aeration and Zone saturation in details with diagram.
14. Explain Darcy's law and significance.
15. Instruments and interpretations involved in geophysical methods.
16. Describe well design and well development.

17. Different types of wells.
18. Explain the water quality in Igneous, sedimentary and metamorphic rocks.
19. Explain groundwater harvesting.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Explain Hydrological cycle with neat diagram and give a note on origin of water.
21. Uses of surging and acidizing in well completion procedures.

(1 × 10 = 10 Marks)
