



QP CODE: 24019220



Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, MAY 2024**

Second Semester

B.Sc Geology and Water Management Model III

**Vocational Course - GW2VOT04 - GROUNDWATER EXPLORATION AND
MANAGEMENT**

2017 ADMISSION ONWARDS

7FB1337F

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Advantages and disadvantages of jetted wells.
2. Air rotary drilling method.
3. Infiltration galleries.
4. List out well development procedures.
5. Hydraulic jetting in well development.
6. Use of chemicals in well development.
7. Geomorphologic method in groundwater investigation.
8. Application of remote sensing in groundwater exploration.
9. Spontaneous potential logging.
10. Neutron logging.
11. Short note on water witching.
12. Explain losing stream and gaining stream.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Percussion drilling.
14. Collector wells.
15. Casing, cementing and screen in well completion.
16. Describe surging with air in well development with a neat sketch.
17. Define electrical resistivity and various electrode arrangements for resistivity determination with diagram.
18. Application of gravity and magnetic methods in groundwater exploration.
19. Various logging methods in groundwater exploration, explain geologic log and drilling time log.
20. Resistivity logging and caliper logging in groundwater investigation.
21. Describe various methods to determine groundwater level.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Write an essay on horizontal wells.
23. Write an essay on well rehabilitation and development.
24. Describe various surface investigation methods of groundwater exploration.
25. Explain groundwater level measurements and describe Kerala groundwater control and regulation act 2003.

(2×15=30)

