QP CODE: 24026909

24026909

Reg No : .....

Name : .....

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

Third Semester

B.Sc Geology and Water Management Model III

VOCATIONAL COURSE - GW3VOT06 - WATER SUPPLY ENGINEERING

2017 Admission Onwards

A9A7DD52

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. Discuss about the factors which is used for estimating quantity of water.
2. Define Per capita demand.
3. List out the factors which influence a particular water supply scheme.
4. Discuss about the water entry level of intakes.
5. Identify the characteristics of Pressure conduits.
6. Define System of Water supply.
7. Describe Construction of distribution system.
8. Describe the advantages of pumping system.
9. Discuss about the disadvantages of intermittent water supply.
10. Describe about Stop Cocks.
11. List out the demerits Dead end method.
12. Discuss about Washout valve.

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Discuss about factors affecting rate of demand and estimated population.

14. Give an account of water requirement for fire demand with the aspects of public purposes.

15. Prepare a note on collection of surface water.

16. Distinguish between reservoir and canal intake in terms of production of more quantity of water.

17. Describe the difference between gravity and pumping system.

18. Discuss about the advantages and disadvantages of combined gravity and pumping system.

19. Distinguish between stand pipe and surface reservoir in the concept of storage capacity.

20. Describe about water lose and waste.

21. Discuss about advantages and disadvantages of various pipe accessories.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain population forecast. Discuss about different methods of population forecasting.

23. Collection, conveyance and distribution of surface waters.

24. Describe the various steps involved in the distribution of drinking water.

25. Explain important purposes and different types of service reservoirs with neat sketches.

(2×15=30)