



QP CODE: 24026908



24026908

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 - GW3VOT05 - IRRIGATION AND HYDROPOWER

2017 Admission Onwards

B7F4F348

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. Discuss about advantages of Perennial irrigation.
2. Describe the diversion scheme.
3. Define Lift irrigation.
4. Discuss about the Merits of Surface Irrigation Methods.
5. Discuss about Wild Flooding.
6. Describe Medium Salinity Water.
7. Describe High Na Water.
8. Define Feeder canal.
9. Define Thal.
10. Discuss about Intake structure.
11. Describe about surge tank.
12. Discuss about Energy production by Turbines.

(10×2=20)

Part B

*Answer any **six** questions.*

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





13. Describe about the necessity and scope of irrigation.
14. Describe about the scope of irrigation and ill effects of irrigation.
15. Distinguish between Sprinkler and Drip irrigations.
16. Discuss about disadvantages of Drip irrigation.
17. Discuss the steps for improving quality of irrigation water.
18. Explain about the quality of irrigation water related to water requirements of crops.
19. List out the advantages of Inundation canal.
20. Describe Canal classification based on alignment with neat sketches.
21. Describe the types of hydel power plants.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Describe about the different methods of surface irrigation with their advantages and disadvantages.
23. Describe about surface and subsurface irrigation methods with neat sketches.
24. Give details on irrigation canals. Briefly describe various types, functions and the financial outputs of canals.
25. Explain the principal components and mechanisms of hydroelectric power plants. Add a note on its Merits.

(2×15=30)

