

22P219

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Name:

Reg.No:

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2023

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P ESC2 C09 - HYDROLOGY AND WATER RESOURCE MANAGEMENT

(Environmental Science)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

Answer any *four* questions. Each question carries 2 weightage.

1. Explain different aspects of Hydrometeorology.
2. Explain transpiration.
3. Define Hail.
4. Explain Stream order.
5. Define Specific yield.
6. Explain Perched aquifer.
7. Name any two strategies of floodplain management.

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. Explain the function of hydrology in water resources development.
9. Define Probability Density Function (PDF).
10. Explain how baseflow is separated from hydrograph.
11. Define Hydraulic Gradient Line (HGL).
12. Make note on Geophysical logging techniques.
13. List the significance of wetland ecosystem.
14. Explain different types of forest management practices.

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Explain the structure and properties of water.

16. Explain Watershed development and management.
17. Explain different forms of flood frequency distribution.
18. Make a note on Water Quality Management in India.

(2 × 5 = 10 Weightage)
