

25P219

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Name:

Reg.No:

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2026

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19PESC2C09 - 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. Define hydrology.
2. Explain transpiration.
3. Define Ephemeral streams.
4. Name the components of Hydrograph.
5. Explain Darcy's Law.
6. Name any two methods for groundwater exploration.
7. Explain National Floodplains Zoning Policy.

(4 × 2 = 8 Weightage)

Part-B

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

8. Illustrate the role of Isotope hydrology in water resource management.
9. Explain Relief parameters of Drainage basin analysis.
10. Explain Conditional probability.
11. Explain Permeability.
12. Define aquiclude.
13. Define the function of Trickling filter.
14. Define Silviculture.

(4 × 3 = 12 Weightage)

Part-C

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

15. Discuss all the three phases of water with a neat diagram.
16. Discuss different types of precipitation mechanisms.
17. Explain different forms of flood frequency distribution.
18. Make a note on management of reparation areas.

(2 × 5 = 10 Weightage)
