

21P219

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Name:

Reg.No:

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2022

(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. List any two hydrological studies carried out in India.
2. Explain transpiration.
3. Explain Sleet.
4. Explain Hydrograph.
5. Define Hydraulic head.
6. Explain Perched aquifer.
7. Define Bio magnification.

(4 × 2 = 8 Weightage)

Part-B

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

8. Explain the applications of Eco hydrology in water resource management.
9. Define the relation between surface run-off and infiltration.
10. Explain the classification of streams.
11. Explain Artesian well.
12. Make note on Geophysical logging techniques.
13. List the significance of wetland ecosystem.
14. Explain Even-aged rotation forest management (RFM).

(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. Explain Principal Component Analysis (PCA).
17. Explain different forms of flood frequency distribution.
18. Make a note on flood plain management strategies.

(2 × 5 = 10 Weightage)
