

19P220

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Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2020

(CUCSS - PG)

CC19P ESC2 C09 - HYDROLOGY AND WATER RESOURCE MANAGEMENT

(Environmental Science)

(2019 Admissions - Regular)

Time: Three Hours

Maximum: 30 Weightage

I. Answer any **four** questions. Each Question carries 2 weightage.

1. Define: Drought, Evapotranspiration, Ground water.
2. Difference between Hyetograph and hydrograph.
3. State the Darcy's Law and its limitation.
4. Comment on flood frequency analysis.
5. Differentiate Surface and Ground water Hydrology.
6. Explain the term storage coefficient and transmissibility.
7. Distinguish between confined aquifer and unconfined aquifer

(4 x 2 = 8 Weightage)

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

8. Enlist the types of Precipitation. Explain any one with neat sketch in brief.
9. Explain how Rock properties affecting ground water.
10. Enlist the different types of aquifers. Explain any one aquifer with neat sketch.
11. Discuss the primary and secondary treatment of water.
12. Explain various causes of flood.
13. Explain Hydrological cycle with neat sketch.
14. Explain the role of water resource management in sustainable development.

(4 x 3 = 12 Weightage)

III. Write an essay on any **two** of the following. Each question carries 5 weightage.

15. Explain briefly water harvesting and its various methods.
16. Briefly explain flow duration curve.
17. Briefly Discuss issues concerned with river linking in India.
18. Explain the importance of conservation and planning for the development of water resources.

(2 x 5 = 10 Weightage)
