

CEM53 Water Resources Management

531

REG. NO

OCTOBER 2021

Time: Three hours

Maximum Marks: 75

- Note:
1. Answer ALL the questions in PART-A (1 mark each)
 2. Answer any ONE question from each unit in PART-B (3 marks each)
 3. Answer any ONE question from each unit in PART-C (10 marks each)
 4. The question paper contains TWO Pages

PART-A (1x10=10)

1. What is meant by Rain gauge?
2. Define Hydrological cycle.
3. Define Porosity.
4. What is mean by mining yield?
5. What is mean by Artificial cutoffs?
6. Define Earth dam.
7. Define Lining of Canal.
8. Define Frequency of irrigation.
9. What is mean by soil conservation?
10. Define Pond.

PART-B (3x5=15)

UNIT-I

11. Write any three purpose of water resource management.
12. What are the methods of Radar measurement of rainfall?

UNIT-II

13. Explain Aquifer.
14. Define Perennial yield.

UNIT-III

15. Explain watershed topology.
16. Write any three causes of failure of earth dam.

UNIT-IV

17. What are the necessity of Lining of canal?
18. Explain water delivery system.

UNIT-V

19. Define Contour bunding.
20. Explain water harvesting.

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PART-C (10x5=50)

UNIT-I

21. Explain in detail factors involved in water resource management.
22. Explain briefly Runoff components.

UNIT-II

23. Briefly explain measurement of yield of well.
24. What are the artificial recharge of Ground water? and Explain recharge methods.

UNIT-III

25. Explain briefly methods of river training.
26. Explain methods of determination of storage capacity of reservoir.

UNIT-IV

27. Briefly explain types of cross drainage works.
28. What are the methods of Improving canal irrigation management and explain.

UNIT-V

29. What are the causes and effects of Soil erosion?
30. Explain in detail methods of waste water recharge for reuse.
