MAY 2025 **P/ID 4434/PGEE1**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions in 50 words each.

1. Define watershed.
2. What is watershed management?
3. Mention the components of the hydrological cycle.
4. Define watershed delineation.
5. What are watershed characteristics?
6. State any two functions of a watershed.
7. What is the watershed approach?
8. Define soil erosion.
9. What are the causes of soil erosion?
10. Define land capability classification.
11. What is land suitability analysis?
12. Define drought management.

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions in 250 words each.

13. Explain the components of a hydrological cycle.

14. What is watershed delineation? Explain the basic process.

15. Describe any three functions of a watershed.

16. Write short notes on modern techniques used in watershed management.

17. What are the objectives of watershed management?

18. Explain the causes of soil erosion?

19. Explain any two methods used for estimating soil moisture.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions in 500 words each.

20. Explain the environmental guidelines for water quality management.

21. Explain the concept of integrated watershed management.

22. Discuss in detail the methods of water conservation and recycling.

23. Examine the role of participatory rural appraisal in watershed management.

24. Critically analyze the merits and demerits of watershed management perspective.

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