MAY 2024 **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. What is an Integrated Watershed Management?
2. Bring out the hydrological functions of a Watershed.
3. What are the four hydrological soil group?
4. Define the term Drought.
5. What do you mean by "Land Capability"?
6. List out the controlling factors of Surface run-off.
7. What are the types of Water Pollution?
8. What is Rainwater Harvesting?
9. What are the uses of Water Quality Analysis?
10. List out the equity issues in Watershed Management.
11. Bring out the various principles of Participatory Rural Appraisal.
12. Who is NGO?

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions in 250 words each.

13. Examine the benefits of Watershed approach.

14. Examine the causes and effects of Soil erosion with reference to India.

15. Give a detailed account on non-structural methods of Flood Management.

16. How will you perform the Land Suitability Analysis?

17. Analyse the purpose and benefits of Watershed Prioritization.

18. Examine the need for equality and inclusiveness in Watershed Management.

19. Analyse the merits and demerits of linking of rives in India.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions in 500 words each.

20. Describe the importance of Remote Sensing and GIS in Watershed Management.

21. Discuss the methods of Watershed delineation and codification scheme in India.

22. Write an essay on People's Participation in Watershed Management activities.

23. Analyse the Environmental guidelines for Water Quality Management practice in India.

24. Write a detailed account of Institutional arrangements for Watershed Projects in India.

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