DECEMBER 2022 **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. Mention the three hydrological functions of a Watershed.

2. Write any two benefits of using GIS in Watershed Management.

3. What are the methods used for estimating Soil Moisture?

4. Define the term Drought.

5. Bring out the usefulness of Watershed Hydrographs?

6. What are the types of Water Pollution?

7. How does mining activity contaminate groundwater?

8. What is Rainwater Harvesting?

9. List out the purpose of Watershed Modelling.

10. What is gender difference?

11. Mention the principles of Participatory Rural Appraisal.

12. List out the equity issues in Watershed Management.

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions in 250 words each.

13. Examine the importance of stakeholders in Watershed Management.

14. Explain non-structural methods of Flood Management.

15. Examine the different Hydrological Soil Groups and its importance.

16. What are the aims and objectives of the Integrated Watershed Management Programme?

17. Examine the purpose and benefits of Watershed Prioritization.

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

19. Write in brief about implementation issues in Watershed-based Projects.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions in 500 words each.

20. Explain the different Watershed characteristics with suitable illustrations.

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

22. Write an essay on Peoples Participation in Watershed Management activities.

23. Describe the different sources of Water pollution with reference to Indian River System.

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

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