DECEMBER 2023 **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 Watershed Management?

2. Brief any two functions of a Watershed.

3. Who are the stakeholders of a Watershed'?

4. What does Integrated Watershed Management mean?

5. Brief any two methods for soil moisture measurements.

6. What does Land Evaluation mean?

7. What are the four structural methods in Flood Management?

8. What does "Confined Aquifer" mean?

9. Define the term Point-source Pollution.

10. Bring out any two agencies issuing Water Quality Standards.

11. Define the term "Puluvial Flood"

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. Write in brief account on the characteristics of an ideal watershed.

14. Examine the role of Soil moisture in Watershed Management.

15. Explain the factors affecting Surface Water Pollution.

16. Examine the need of Watershed Prioritization in Soil and Water Conservation measures.

17. How will you perform a Hydrological Modelling in a Watershed?

18. Write an account on Rainwater Harvesting System and its process.

19. Examine the need for a Participatory Rural Appraisal in Watershed Management.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions in 500 words each.

20. Write a detailed account on principles of National Watershed Policy of India 2012.

21. Describe the role of Remote Sensing and GIS in Watershed Management.

22. Critically analyse various types of Drought and Drought Management practices.

23. Examine the role of Women in a Watershed Management activities in India.

24. Explain the merits and demerits of linking of Rivers in India with suitable examples.

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