DECEMBER 2024 **P/ID 4434/PGEE1**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions 50 words each.

1. Define the term “Watershed”.

2. Bring out the habitat functions in a Watershed.

3. Who are stakeholders in Watershed Management?

4. What does Integrated Watershed Management mean?

5. Bring out any two Drought Mitigation Methods.

6. What are the types of Run-off?

7. Define the term “Confined Aquifer”.

8. What does Well hydrograph mean?

9. What are the benefits of Watershed Modelling?

10. Differentiate the term Aquatic Habitat and Riparian Habitat.

11. List any two functions of State level nodal agency in Watershed Management.

12. Write a short note on Participatory Rural Appraisal.

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions in 250 words each.

13. Explain the six water resource regions of India with suitable illustrations.

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

15. Analyse the importance of Watershed Management in Drought–prone–Areas.

16. How will you differentiate the Point and Non-Point Source Pollutions?

17. Examine the role of Watershed Modelling in Hydrological studies.

18. Evaluate various rainwater harvesting system adopted in India.

19. Women are the major stakeholder in Watershed Management – Justify.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions in 500 words each.

20. Describe various components of Hydrological Cycle with suitable illustrations.

21. Discuss the structural and non-structural methods of Flood management practices.

22. Write a detailed account on Environmental guidelines for Water Quality management.

23. Evaluate the principles of Participatory Rural Appraisal in Watershed Management.

24. Critically evaluate the merits and demerits of linking of rivers in India with examples.

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