MAY 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. Why Watershed considered as a natural unit?

2. What are the habitat functions in a Watershed?

3. Who are stakeholders in Watershed Management?

4. Write any two methods for soil moisture measurements.

5. Mention any two Drought Mitigation Methods.

6. What are the types of Run–off?

7. Write any two objectives of Water Policy of India 2012.

8. Define Groundwater movement

9. Write any two benefits of Watershed Modelling.

10. Write any two implementation issues in Watershed Projects.

11. Name any two agencies issuing Water Quality Standards.

12. Who is an NGO?

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions in 250 words each.

13. Explain the Hydrological Cycle with suitable illustrations.

14. Examine the importance of Watershed Management in Drought-prone Areas.

15. Differentiate the Point and Non–Point Source Pollutions.

16. Write an account on causes and effects of soil erosion with reference to India.

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

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

19. Why Women's participation is needed in Watershed Management? Give examples.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions in 500 words each.

20. Describe the causes, types and effects of Soil erosion with reference to India.

21. Explain structural and non-structural methods of Flood management practices.

22. Explain the different functions of a Watershed with suitable illustrations.

23. Write a detailed account on Integrated Watershed Management with examples.

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

———————