DECEMBER 2023 **P/ID 4437/PGE2F**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions in 50 words each.

1. What do you mean by entity in GIS?

2. Differentiate between polygon buffer and polygon setback.

3. What is meant by weighted overlay?

4. Define the term edge matching.

5. What is meant by trend surface analysis?

6. Define SQL.

7. Explain the term kriging.

8. What is meant by attribute data editing?

9. What are the similarities between raster and vector data?

10. Explain the importance of reclassification technique.

11. What is geo-referencing?

12. What is data abstraction in a data base management system?

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions in 250 words each.

13. Explain topological overlay and its advantages.

14. Explain TIN and its applications.

15. What are the attribute data errors in GIS? Give examples.

16. Write a short note on applications of GIS in land use changes.

17. Explain the importance and need of topology.

18. Describe methods to link spatial data with non-spatial data.

19. Explain various parts of hardware components of a GIS system.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions in 500 words each.

20. Briefly explain about the logical operators in spatial analysis.

21. Discuss the concept of network analysis with suitable examples.

22. What are the three basic spatial entities and how are these used to portray geographical features on paper maps and in GIS?

23. Give an account on location allocation models in GIS.

24. What are the components of GIS? Explain their importance with illustrations.

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