DECEMBER 2022 **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. Difference between Spatial and Aspatial data.
2. Define the term GIS.
3. Write a short note on Database.
4. Bring out the role of open source software in GIS.
5. Differentiate between overshoot and undershoot.
6. What do you meant by thiessen polygon?
7. List out various types of vector data.
8. Write a short note on spaghetti model.
9. Bring out the functionality of clipping.
10. Why is data integration important?
11. Define – Land Information System (LIS).
12. What is meant by query analysis?

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions in 250 words each.

13. Explain the characteristics of cartographic generalization.

14. Describe the spatial data editing and its significance.

15. Examine the importance of web GIS in weather applications.

16. What is vector overlay operations? Explain one of them.

17. Why interpolation methods are used in GIS? Explain with example.

18. Write a detailed account on Data pre-processing steps in GIS.

19. Elucidate the data acquisition mechanism in GIS.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions in 500 words each.

20. Discuss the historical development and various components of GIS with suitable illustrations.

21. How GIS is useful in determining optimum route between two locations?

22. Provide examples of how GIS is used in everyday life and explain its importance.

23. Explain arithmetic operations, logical operations and conditional expression of spatial data analysis.

24. Examine the application GIS in location, allocation and facility management with suitable examples.

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