MAY 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 is attribute data?

2. What do you mean by the term sliver polygon?

3. Explain the term BOOLEAN operators.

4. Differentiate between union and intersection tool in overlay analysis.

5. Define the term metadata.

6. Explain the importance of queries in GIS.

7. Define the term reclassification.

8. What is database and its importance?

9. What is meant by spatial interpolation?

10. Explain the term rubber sheeting.

11. Define the term topology.

12. List out the available open data sources.

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions in 250 words each.

13. Explain practical applications of digital elevation models.

14. Briefly explain the application of web GIS in the field of tourism.

15. What are the sources of spatial data? Explain with example.

16. What are the advantages and disadvantages of vector data?

17. Raster data structure is more suitable for analytical operations. Explain with its advantages and disadvantages.

18. Use of GIS leads to better decision making in government. Elaborate the statement.

19. Clearly distinguish the difference between raster and vector data.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions in 500 words each.

20. Discuss in detail about the practical applications of overlay analysis.

21. Briefly explain about the proximity analysis and its real-world application.

22. Examine the errors involved in vector data model with examples.

23. In what ways can GIS be employed to reduce road accidents? Explain with Indian example.

24. What are the steps involved in network analysis? Explain its major applications.

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