MAY 2024 **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 Raster Data?

2. Provide a brief note on Spatial Referencing.

3. Define the Spaghetti Data Model.

4. Offer a brief note on Projections.

5. Provide a short note about RDBMS

6. Briefly explain Proximity Analysis.

7. Define Spatial Queries.

8. Write a short note on DEM (Digital Elevation Model).

9. What are Trend Surfaces in Spatial Analysis?

10. Note on Cloud GIS.

11. Define Geocoding.

12. Give a short note on Relative Accuracy.

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions, in 250 words each.

13. Discuss the role of quality assurance in minimizing errors in GIS databases.

14. Explain differences between vector and raster data models.

15. Explain the importance of metadata in spatial data management.

16. Discuss the significance of buffer analysis in spatial decision-making.

17. Describe the components of a network data model.

18. Discuss the advantages and limitations of using trend surfaces in GIS.

19. Discuss how GeoServer facilitates the sharing of geospatial data.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions in 500 words each.

20. Explain different sources of spatial data

21. Differentiate the advantages and disadvantages of raster data models.

22. Write an essay on Database Management System (DBMS) and its role in GISW.

23. How do data resolution and accuracy impact the outcomes of spatial interpolation and surface analysis?

24. Discuss how GIS can be utilized for facility management.

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