MAY 2025 **P/ID 4441/PGE3J**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions in 50 words each.

1. What does "Closed Traverse Survey" mean?
2. What is a "Focal length of a camera"?
3. Define the term "Aerial Mosaic".
4. What are passive Sensors?
5. What does Radiometric resolution mean?
6. What are "Value added data products"?
7. What does micro-wave sensing mean?
8. What is the need of meteorological satellites?
9. "True color and False color" — Differentiate.
10. What do you mean "ISODATA" clustering?
11. Define the term SAVI.
12. Bring out the role of ground truth visit in image interpretation.

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions in 250 words each.

13. How will you determine the scale of an Aerial Photograph? – Discuss.

14. Examine various methods of data acquisition in remote sensing process

15. Bring out the concept and advantages of sun-synchronous satellite orbit

16. Describe the characteristics of a non-imaging sensors and its applications

17. What does image enhancement mean? Explain the various challenges in image enchantment

18. Explain various process in perform the supervised classification technique

19. How will you prepare a landuse/landcover change detection map of a regions using the satellite data?

PART C — (3 × 10 = 30 marks)

Answer any THREE questions in 500 words each.

20. Discuss about the automated survey methods, instruments and its advantages with suitable examples

21. Evaluate various concepts of resolutions in remote sensing process with suitable examples

22. Diagrammatically illustrate the major file format in which the raw remote sensing data are stored at Ground Receiving Station (GRS).

23. What does image pre-processing mean? Explain various pre-processing methods to correct the raw satellite data

24. Discuss the role of remote sensing in geology and geomorphological studies with suitable case studies.

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