DECEMBER 2023 **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 surveying mean?

2. What are Stereo pairs?

3. GPR – Define.

4. What does scattering mean?

5. What affects the atmospheric windows?

6. Name any Four Non-imaging sensors

7. Bring out the salient features CCD sensor system

8. Distinguish between "Optical" and "Mechanical" sensor.

9. What are the Types of Satellite data?

10. What do you mean by NDVI?

11. Bring out the need of a Spectral profile?

12. Differentiate landuse and landcover.

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions in 250 words each.

13. Examine the merits and demerits of traditional surveys.

14. Describe various spectral regions and its characteristics.

15. Explain about the major types of remote sensing platforms.

16. Describe the nature and characteristics of a micro-wave sensing.

17. Examine various types of satellite orbits and its applications.

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

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

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions in 500 words each.

20. Discuss about different types of aerial photographs on the basis of camera position axis and its applications.

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. Discuss various steps involved in digital image processing of remote sensing data with suitable illustrations.

24. Examine the role of remote sensing in disaster management activities with a case study.

———————