DECEMBER 2024 **P/ID 4441/PGE3J**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions each in 50 words.

1. What is an Open Traverse Survey?

2. What are Oblique Photographs?

3. What do you mean by GNSS?

4. EMR — define.

5. What are Active Sensors?

6. What is a Geo-Stationary Orbit?

7. What are “Standard data products”?

8. Why Radiometric corrections are needed in Remote Sensing?

9. What is meant by Image Interpretation Key?

10. What are Sample Sets?

11. Define the term "NDVI".

12. What does feature extraction mean?

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions in 250 words each.

13. How will you measure the orientation of an Aerial Photographs?

14. Evaluate the effects of energy interaction with earth surface features.

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

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

17. Bring out the concept and advantages of near-polar satellite orbit

18. What does image interpretation mean? Explain various elements of image interpretation

19. What is Band Ratio? Explain various band ratio techniques and their applications.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions in 500 words each.

20. Discuss the traditional survey methods and instruments with suitable illustrations.

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

22. Write a detailed account on imaging and non-imaging sensor in remote sensing with suitable examples.

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

24. Critically examine the difference between supervised and unsupervised classification process.

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