MAY 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 is a Closed Traverse Survey?

2. Define the term “Aerial Mosaic”.

3. What do you mean by Total Station?

4. Define the term “Remote Sensing”.

5. What are Active Sensors?

6. FCC - Define.

7. What are “Standard data products”?

8. Bring out the characteristic of Polar orbiting satellite.

9. What is meant by Image Interpretation Key?

10. What does Band Ratio mean?

11. Define the term “SAVI”.

12. Bring out the need 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?

14. Evaluate the energy interaction with earth surface features.

15. Differentiate the active and passive remote sensing with suitable diagram.

16. What are the two forms of selective scattering and how does selective scattering differ from a non–selective scattering?

17. Bring out the concept and advantages of Sun–synchronous satellite orbit.

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

19. Explain various process in perform the supervised classification technique.

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. What does Electromagnetic Spectrum (ES) mean? Explain the various regions of ES with suitable illustrations.

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. Discuss the role of remote sensing in water resources management practices with any case study in Indian regions.

———————