

(No additional sheet will be supplied)

**PART A — (5 × 3 = 15 marks)**

Answer any FIVE questions. Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Types of sensors.
2. Remote sensing platforms.
3. Components of GIS.
4. Explain the advantages of raster.
5. Stages of mineral exploration.
6. Stratigraphic guides.
7. Write the objectives of interpretation?
8. Google maps.

**PART B — (4 × 15 = 60 marks)**

Answer ALL questions. Each question carries 15 marks.

Each answer should not exceed 6 page.

9. With a neat sketch explain basic components of an ideal remote sensing system.  
Or
10. Describe the different digital image processing techniques used.
11. Explain how remote sensing and GIS techniques are used in water resources management and Monitoring.  
Or
12. Explain about the different raster and vector data structure models and advantages of each one.

13. Define 'mineral association'. Explain how mineral association is used as a guide to ore search.

Or

14. Explain the rock alteration and geobotanical guides in mineral exploration.
15. Explain the role of Remote Sensing in environment management.

Or

16. Explain in detail basic elements of image interpretation.
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