PART A — (10 × 2 = 20 marks)

1. What do you mean by ‘Atmospheric Window’?
2. Define remote sensing.
3. What are the different types of platforms?
4. What do you mean by Sun- synchronous satellite?
5. What are types of image interpretation?
6. What are the different types of data products?
7. Define GIS.
8. Differentiate between Plan and Map.
9. What is data model?
10. Differentiate between vector and raster data.

PART B — (5 × 16 = 80 marks)

11. (a) Explain in detail spectral reflective characteristics of soil, water and vegetation. (16)

Or

(b) (i) Explain in detail about the remote sensing components. (10)
(ii) Explain in detail about the spectral signature concepts. (6)
12. (a) Explain in detail about different types of Earth Resources and Meteorological satellites.

Or

(b) Explain in detail about the Airborne and space borne TIR and microwave sensors.

13. (a) Explain in detail about the basic elements of image interpretation and visual interpretation keys.

Or

(b) Explain in detail about the multispectral image classification.

14. (a) Explain in detail about the basic components of GIS.

Or

(b) Explain in detail about the data base management system.

15. (a) Write about the modeling highway alignment studies using GIS.

Or

(b) Explain in detail about two data models in GIS.