

**POST GRADUATE DIPLOMA IN  
GEOINFORMATICS/  
M. SC. GEOINFORMATICS  
(PGDGI/MSCGI)**

**Term-End Examination**

**June, 2025**

**MGY-102 : REMOTE SENSING AND IMAGE  
INTERPRETATION**

*Time : 2 Hours*

*Maximum Marks : 50*

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**Note :** *All questions are compulsory. Marks for  
each question are indicated against it.*

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1. Write short notes on any *four* of the following : 4×5=20
  - (a) Orbit and its types

- (b) Spectral resolution
  - (c) RISAT series
  - (d) Landsat
  - (e) Image interpretation keys
  - (f) Image histogram and its significance
2. (a) What is spectral signature ? Describe the spectral signature of soil giving suitable diagrams. 10
- Or*
- (b) Discuss in detail energy-atmosphere interaction.
3. (a) What is ground truth data ? Describe the planning and collection of ground truth data. 10

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*Or*

(b) Discuss various elements of aerial photo-interpretation.

4. (a) Give a detailed account of digital image interpretation. 10

*Or*

(b) Define Kappa coefficient. Describe various steps used for its calculation.

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