

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

Term-End Examination

June, 2026

**MGY-005 : TECHNIQUES IN REMOTE SENSING
AND DIGITAL IMAGE PROCESSING**

Time : 3 Hours

Maximum Marks : 75

Note : (i) *All questions are compulsory.*

(ii) *Marks for each question are indicated against it.*

(iii) *Draw well labelled diagrams, wherever necessary.*

(iv) *Illegible answer would not be evaluated.*

1. (a) Discuss geometric errors and their approaches of their corrections. 15

Or

- (b) Give an account of accuracy assessment of various types of classification outputs.
2. (a) Discuss the imaging and non-imaging radars. 10

Or

- (b) Describe geometrical properties of aerial photographs.
3. (a) Give comparison of pixel and object based classification, and soft and hard classification. 10

Or

- (b) Discuss the basic codes of elements common for programming languages.
4. Give an overview of unmanned aerial vehicle platforms. 10
5. Give an account of basic data structure in 'R'. 10

[3]

6. Write short notes on any *four* of the following : 4×5=20

- (a) Radiometric calibration of thermal scanners.
- (b) Application potential of LiDAR data.
- (c) Linear contrast enhancement techniques.
- (d) Stages in supervised image classification.
- (e) Advantages and potential of 'R'.
- (f) Brovey transform.

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