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MGY-102

**POST GRADUATE DIPLOMA IN
GEOINFORMATICS (PGDGI)**

Term-End Examination

June, 2024

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

Time : 2 Hours

Maximum Marks : 50

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

1. Write short notes on any **four** of the following :

4×5=20

- (a) Thermal remote sensing system
- (b) Radar imaging satellites series
- (c) SPOT satellite
- (d) Electromagnetic radiation and its properties.
- (e) Advantages of aerial photographs
- (f) Image histogram and its significance

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2. (a) What is spectral signature ? With the help of neat, well-labelled diagrams explain the spectral signatures of vegetation and water. 10

Or

- (b) What is image resolution ? Discuss in detail, various types of image resolution.

3. (a) Describe the planning and collection of ground truth data. Add a note on its significance in remote sensing data analysis. 10

Or

- (b) Define visual interpretation. Discuss in detail, its various elements giving suitable examples and diagrams.

4. (a) Discuss the steps involved in the digital image processing. 10

Or

- (b) Define accuracy assessment and explain in detail, methods of its calculation.
