

No. of Printed Pages : 4

MGY-002

**POST GRADUATE CERTIFICATE IN
GEOINFORMATICS
(PGCGI)**

Term-End Examination

June, 2025

**MGY-002 : REMOTE SENSING AND IMAGE
INTERPRETATION**

Time : 2 Hours

Maximum Marks : 50

Note : *All questions are compulsory. Question Nos. 2 to 4 have internal choices. Marks for each question are indicated against it.*

1. Answer all parts :

(a) Fill in the blanks with appropriate word(s) : $4 \times 1 = 4$

(i) The first Indian remote sensing satellite known as was launched in the year 1988.

B-1488/MGY-002

P. T. O.

- (ii) LISS is an abbreviation of
 - (iii) is defined as the spatial arrangement of objects.
 - (iv) MODIS is an abbreviation of
- (b) State whether the following statements are True (T) or False (F) : $3 \times 1 = 3$
- (i) Albedo is the ratio of the electromagnetic energy reflected or diffused by a substance to the total incident energy.
 - (ii) SPOT-4 remote sensing satellite provided 10 m spatial resolution data in the panchromatic band and 30 m resolution in the multispectral bands.
 - (iii) A lookup table is used to transform input data into a more desirable output format.

- (c) Match the items in Column A with those given in Column B : $3 \times 1 = 3$

Column-A**Column-B**

- | | |
|-----------------------|------------------|
| (i) Kappa Coefficient | (1) Swath |
| (ii) Mie Scattering | (2) Error matrix |
| (iii) Field of view | (3) Smoke |

2. Write short notes on any *four* of the following : $4 \times 5 = 20$

- (a) Merits and demerits of supervised classification
- (b) Spectral characteristics of vegetation
- (c) Remote sensing system
- (d) Radarsat
- (e) Reconnaissance satellites
- (f) Advantages and disadvantages of clustered sampling pattern

3. (a) Define absorption. Discuss about the important atmospheric windows of the electromagnetic spectrum. 10

Or

- (b) Define open and closed types of orbit.
Discuss different types of closed orbits
in detail. 10
4. (a) Discuss in detail the elements of visual
image interpretation. 10

Or

- (b) What is error matrix ? Discuss the
creation and interpretation of error
matrix. 10

x x x x x