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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) : 4×1=4

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

(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) : 3×1=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 : 3×1=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 : 4×5=20

(a) Merits and demerits of supervised classification

(b) Spectral characteristics of vegetation

(c) Remote serving 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

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