

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

Term-End Examination

December, 2024

**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 earth resource satellite known as was launched in the year 1972.

(ii) RADAR is an acronym for

- (iii) refers to the colour or relative brightness of an object in a colour image.
- (iv) NDVI is an abbreviation of
- (b) State whether the following statements are True (T) or False (F) : $3 \times 1 = 3$
- (i) Transmission is the passing of radiation through a substance without significant attenuation.
- (ii) The smallest change in intensity level that can be detected by a sensing system is called spectral resolution.
- (iii) If an image is too dark, histogram will show higher concentration in the right side and if the image is too bright its histogram will show higher concentration in the left side.
- (c) Match the items given in Column A with those given in Column B : $3 \times 1 = 3$

Column A	Column B
(i) Band ratio	(1) Photons
(ii) Radiant flux	(2) Radar wavelength
(iii) C-band	(3) Arithmetic operation

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

4×5=20

- (a) Minimum mapping unit
 - (b) Microwave imaging system
 - (c) SPOT satellites
 - (d) Digital number
 - (e) Rayleigh scattering
 - (f) Image corrections
3. (a) What is spectral signature ? Discuss the spectral characteristics of vegetation. 10

Or

- (b) Discuss in detail various types of satellites.
4. (a) Define visual interpretation. Discuss the tasks and prerequisites for image interpretation. 10

Or

- (b) What is image classification ? Discuss unsupervised classification in detail.

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