

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

Term-End Examination

00425

December, 2016

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

Time : 2 hours

Maximum Marks : 50

Note : All questions are compulsory. Questions no. 2 to 4 have internal choices. The marks for each question are indicated against it.

1. Answer *all* parts :

(a) Fill in the blank spaces with appropriate word(s).

4×1=4

(i) Low reflecting mineral is goethite while _____ mineral exhibits high reflectance.

(ii) Organic matter plays a significant role in determining the reflectance properties of _____.

(iii) LIDAR is an example of _____ sensor. (Active/Passive)

(iv) _____ is the area or strip of land of the Earth's surface which a sensor observes during orbital motion.

(b) State if the following statements are True (T) or False (F) : 3×1=3

(i) Assisted GPS (A-GPS) has been incorporated into phones to enable better locational accuracy.

(ii) Generally space-borne remote sensing has a small area of coverage.

(iii) Radar Imaging Satellite (RISAT) is an Indian microwave imaging satellite developed by ISRO.

(c) Match the items given in Column A with those given in Column B : 3×1=3

<i>Column A</i>	<i>Column B</i>
(i) LANDSAT	(1) French Space Agency, CNES
(ii) RADARSAT	(2) NASA and USGS
(iii) SPOT	(3) Canada

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

- (a) Electromagnetic Radiation Models
- (b) Any five elements of Image Interpretation
- (c) Types of Sampling Patterns
- (d) Types of Digital Images
- (e) Advantages of Image Fusion
- (f) Unsupervised Classification

3. Explain the interactions of EMR with reference to atmosphere. 10

OR

Define Image Resolution and discuss its types, giving suitable examples. 10

4. Describe Image distortion and Image correction. Explain geometric correction in detail. 10

OR

Discuss accuracy assessment, its need and the sources of errors. 10

