

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

**Term-End Examination**

00192

December, 2014

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

*Time : 2 hours*

*Maximum Marks : 50*

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*Note : All questions are compulsory. The marks for each question are indicated against it.*

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1. Answer **all** parts :

(a) Fill in the blank spaces with appropriate word(s) : 4×1=4

(i) SLAR is an abbreviation of \_\_\_\_\_ .

(ii) The word NIR is an acronym for \_\_\_\_\_ .

(iii) The word 'ISODATA' stands for \_\_\_\_\_ .

(iv) AVHRR is an abbreviation of \_\_\_\_\_ .

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

- (i) Microwave radiometers are examples of passive sensors.
- (ii) Gray scale is a calibrated sequence of gray tones ranging from black to white.
- (iii) Visual Image Interpretation is about manipulation of digital number of an image.

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

<i>Column A</i>	<i>Column B</i>
(i) NDVI	(1) Data quality
(ii) Cubic convolution	(2) Band ratio technique
(iii) Range	(3) Resampling technique

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

- (a) Non-systematic errors and their correction
- (b) Types of digital images
- (c) Spectral signature of vegetation
- (d) Error matrix
- (e) Landsat mission
- (f) Elements of Visual Image Interpretation

3. (a) Discuss the energy-atmosphere interaction in detail. 10

**OR**

- (b) Explain sensor systems with particular emphasis on multi-spectral imaging sensor system. 10

4. (a) Describe ground truth data and its importance. Elaborate on the types of sampling patterns. 10

**OR**

- (b) Discuss image classification with emphasis on unsupervised classification in detail. 10
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