No. of Printed Pages : 3

**MGY-002** 

## POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

**Term-End Examination** 

00678

**June, 2015** 

## MGY-002 : REMOTE SENSING AND IMAGE INTERPRETATION

Time : 2 hours

Maximum Marks : 50

**Note :** All questions are **compulsory**. 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) The word 'SAR' stands for \_\_\_\_\_.
  - (ii) The word 'IFOV' stands for
  - (iii) The word 'ISODATA' stands for
  - (iv) NDVI stands for \_\_\_\_\_.

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P.T.O.

- (b) State if the following statements are True(T) or False(F):  $3 \times 1=3$ 
  - (i) Landsat is a series of satellites in sun-synchronous polar orbit first launched in 1974. (True/False)
  - (ii) Mie scattering happens when the particles in the atmosphere are of the same size as the incident wavelength. (True/False)
  - (iii) Image histograms are the frequency distributions of pixel values in an image. (True/False)
- (c) Match the items given in Column A with those in Column B :  $3 \times 1=3$

Column A

Column B

- (i) EVI (1) Map accuracy
- (ii) Thresholding (2) Band ratio
- (iii) Kappa (3) Enhancement
- 2. Write short notes on any *four* of the following:  $4 \times 5 = 20$ 
  - (a) Systematic radiometric errors
  - (b) Spatial resolution
  - (c) Spectral signature of soil
  - (d) Colour composite
  - (e) Ground truth data and purpose of ground truth data collection
  - (f) Sun-synchronous orbit

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**3.** (a) Discuss in detail the Indian Remote Sensing satellites for land applications. 10

## OR

- (b) Describe in detail the electromagnetic radiation laws. 10
- (a) Explain image interpretation with particular emphasis on visual image interpretation. 10

## OR

(b) Discuss in detail the image enhancement with appropriate examples and illustrations, wherever required. 10

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4.