

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

**Term-End Examination**

00078

**June, 2016**

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

*Time : 2 hours*

*Maximum Marks : 50*

*Note : All questions are compulsory. 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) ISODATA is an abbreviation of \_\_\_\_\_.

(ii) MIR stands for \_\_\_\_\_.

(iii) VHRR is an abbreviation of \_\_\_\_\_.

(iv) LISS stands for \_\_\_\_\_.

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

- (i) Vegetation reflects highest in the green wavelength region.
- (ii) NDVI is useful to identify specifically the water features.
- (iii) Water and land features can be distinguished with the help of NIR band.

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

*Column A*

*Column B*

- |                         |                          |
|-------------------------|--------------------------|
| (i) Whisk-broom         | (1) Scanner              |
| (ii) Digital Image      | (2) Resampling technique |
| (iii) Nearest neighbour | (3) Filtering            |

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

- (a) Image Fusion
- (b) Colour Composite
- (c) Spectral Signature of Vegetation
- (d) Error Matrix
- (e) Landsat Mission
- (f) Scattering
- (g) Sampling Pattern for Ground Truth Data Collection

3. Discuss in detail image resolution and its types. 10

**OR**

Explain energy-earth interaction in detail. 10

4. Discuss image classification with emphasis on supervised classification in detail. 10

**OR**

Describe the elements of image interpretation with suitable examples. 10

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