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MGY-002

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

Term-End Examination

June, 2020

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

Time : 2 Hours

Maximum Marks : 50

Note : (i) All questions are compulsory.

*(ii) The marks of each question are indicated
- against it.*

*(iii) Question nos. 2 to 4 have internal
choices.*

1. Answer all parts :

(a) Fill in the blank spaces with appropriate
word(s) : 1 each

(i) Spectral characteristics of vegetation
in visible region of the spectrum is due
to

- (ii) satellite takes the same time period of earth's rotation to complete one orbit around the earth.
 - (iii) In eight-bit monochrome image tones are represented by to values.
 - (iv) NDVI stands for
- (b) State if the following statements are True (T) or False (F) : 1 each
- (i) Accuracy in image classification is affected because of errors of inclusion and errors of exclusion.
 - (ii) Simple random sampling pattern is the model in which the sample points are randomly chosen.
 - (iii) INSAT series of satellites are developed for tele-communication and meteorological services.

- (c) Match the items given in column A with those given in column B : 1 each

Column A**Column B**

- | | |
|------------------|------------------|
| (i) Planck's law | (1) Satellite |
| (ii) Apple | (2) Pixel values |
| (iii) Histogram | (3) Radiation |

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

5 each

- (a) Spectral signature
- (b) Types of digital images
- (c) Non-linear contrast stretch
- (d) Geosynchronous orbit
- (e) Scattering
- (f) Oceansat

3. Explain the stages involved in image classification process. Add a note on the unrupervised image classification. 10

Or

Write an essay on digital image processing.

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4. Elaborate the concept of electromagnetic radiation with due emphasis on its properties. 10

Or

Write an essay on Commercial Remote Sensing Satellites.

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