No. of Printed Pages: 3

MGY-002

Maximum Marks · 50

POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination June, 2019

MGY-002: REMOTE SENSING AND IMAGE INTERPRETATION

	1/12/1/10/1/10 : 00
Note : All questions are co	mpulsory. Questions No.
2 to 4 have interna	l choices. The marks for
each question are inc	licated against it.

1. Answer all parts:

Time: 2 Hours

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

 1 each
 - (i) MXL stands for
 - (ii) The process of removing geometric distortions and assigning the properties of a map to an image is known as
 - (iii) Spectral reflectance is the ratio of energy to incident energy.
 - (iv) MSS is an abbreviation of

- (b) State if the following statements are True (T) or False (F): 1 each
 - (i) The formula of NDVI calculation is (NIR + RED)/(NIR RED).
 - (ii) Producer's accuracy is referred to as the probability that any pixel in that category has been correctly classified.
 - (iii) A blackbody is a matter which absorbs all radiation incident upon it.
- (c) Match the items given in column A with those given in column B. 1 each

Column A

Column B

- (i) Image (1) IKONOS processing software
- (ii) Geo Eye
- (2) Quick Bird
- (iii) Digital Globe
- (3) Geomatica
- 2. Write short notes on any four of the following:

5 each

- (a) Remote sensing system
- (b) Spectral signature of vegetation
- (c) Geosynchronous and Sunsynchronous orbits
- (d) Anderson's classification scheme

- (e) Unsupervised image classification
- (f) Any *five* elements of visual image interpretation
- 3. What is electromagnetic radiation and discuss its interactions with atmosphere in detail. 10

Or

What is ground truth data and describe the various patterns for its collection.

4. Define image enhancement and explain in detail various image enhancement techniques.

10

Or

Categorise remote sensing satellites on the basis of their spatial resolution by giving suitable examples.

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