No. of Printed Pages : 4

MGY-002

POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

December, 2021

MGY-002 : REMOTE SENSING AND IMAGE INTERPRETATION

Time : 2 Hours *Maximum Marks : 50*

Note : (*i*) *All questions are compulsory.*

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

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

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1. Answer all parts :

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

(i) PCA is an acronym for ..... .

(ii) Microwave passive sensors are called ..... .

(iii) ..... is the process of correction of raw remotely sensed data for errors of skew, rotation and perspective.

(iv) MMU stands for ..... .

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

(i) Reflective region is the band corresponding to the atmospheric window between 8 μm and 14 μm.

(ii) The smallest change in intensity level that can be detected by a sensing system known as spectral resolutions.

(iii) Irregular geometric shapes are indicators of human presence and use.

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

Column-A		Column-B	
(i)	Resampling	(a)	Navigation satellites
(ii)	GPS	(b)	Training area
(iii)	Supervised classification	(c)	Interpolation

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

(i) Kappa coefficient

(ii) Albedo and spectral reflectance

(iii) Landsat

(iv) Image interpretation keys

(v) Digital image and its types

(vi) Steps in unsupervised classification

3. (a) What is image resolution ? Explain different types of image resolution. 10

Or

(b) What is visual image interpretation ? Describe the elements of visual image interpretation. 10

4. (a) What is image transformation ? Explain arithmetic operations of image transformation technique using NDVI. 10

Or

(b) Define electromagnetic radiation. Discuss its properties in detail. 10