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MGY–002

POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

December, 2023

MGY-002 : REMOTE SENSING AND IMAGE INTERPRETATION

Time : 2 Hours *Maximum Marks : 50*

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

(*ii*) *Questions have 'internal choices'.*

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

1. Write short notes on any ***six*** of the following : 6×5=30

   (a) Electromagnetic radiation

   (b) Scattering

   (c) Types of orbits

   (d) Relationship among different types of resolutions

   (e) RADARSAT

   (f) Visual image interpretation keys

(g) LULC classification system

(h) Components of image processing system

(i) NDVI

(j) Sources of classification errors and need for accuracy assessment

2. (a) What do you understand by spectral signature ? Describe spectral signature of soil and the factors affecting it. 2+8

Or

(b) What are multispectral imaging sensor system ? Discuss acrosstrack and along-track scanning systems in detail. 2+8

3. (a) What do you understand by ground truth data ? Discuss in detail the procedure of selecting appropriate approach and recording measurements. 2+8

Or

(b) What is image distortion ? Explain radiometric distortions with emphasis on systematic errors and methods of their correction. 2+8