## POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

## **Term-End Examination**

December 2018

INTERPRETATION

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Time: 2 hours Maximum Marks: 50 **Note:** All questions are **compulsory**. Questions no. 2 to 4. have internal choices. The marks for each question are indicated against it. Answer all parts: 1. Fill in the blank spaces with appropriate (a) word(s):  $4\times1=4$ (i) The portion of the atmosphere where radiation is not absorbed by the atmospheric constituents is known as (ii) The visible, infrared and \_\_\_\_ regions of electromagnetic spectrum are commonly used for remote sensing. RADAR is an example of \_\_\_\_\_ remote sensing sensor. (iv) NRSC is an abbreviation

- (b) State whether the following statements are True(T) or False(F):  $3\times 1=3$ 
  - (i) Spatial resolution of sensors is referred to as size of pixel.
  - (ii) Geometric correction is carried out to improve the accuracy of measurements made by sensors pertaining to the spectral reflectance.
  - (iii) Histogram equalisation is one of the forms of linear contrast image enhancement.
  - (c) Match the items given in Column A with those given in Column B:  $3\times 1=3$

## Column A

## Column B

- (i) Ground Truth (1) Brightness

  Data /Intensity of an

  Image
- (ii) Digital Number (2) Ground Control Points
- (iii) Image to Image (3) Attribute,

  Registration Location and

  Time

2.	Writ		notes	on	any	four	of	the
	follov	wing:						4×5=20
	(a)	Propertie	es of Ele	ctron	nagnet	ic Radi	ation	l
	(b)	Transmis	ssion					
	(c)	Resolutio	n and it	з Туј	pes			•
	(d)	Image Hi	stogran	1				
	(e)	Types of	Samplin	g Pa	tterns			
	<b>(f)</b>	Error Ma	trix					
3.	3. What is spectral signature? Write a detail account of spectral signature of vegetation a soil.							
				OR				
		is visual ints, giving					cuss	its <i>10</i>
<b>4.</b>		ss across- ; suitable e					canne	ers 10
			C	R				
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