No. of Printed Pages: 3

**MGY-002** 

## POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

00345

**Term-End Examination** 

June, 2018

## MGY-002 : REMOTE SENSING AND IMAGE INTERPRETATION

Time : 2 h	ours	Maximum N	Maximum Marks: 50				
•		stions are <b>compulsory</b> . Marks are indicated against it.	for each				
1. Answ	ver <b>all</b>	parts:					
(a)	Fill i	n the blank spaces with approp	riate				
	word	(s):	4×1=4				
	(i)	LISS stands for					
	(ii)	CMY is an abbreviation of	<u></u> .				
	(iii)	SFCC stands for	•				
	(iv)	RADAR is an acronym for	·				
MGY-002		1	P.T.O.				

- (b) State whether the following statements are True(T) or False(F):  $3\times 1=3$ 
  - (i) Radar is an object-detection system which uses electromagnetic radiowaves to determine range, altitude, direction or speed.
  - (ii) Atmospheric window is the wavelength band at which electromagnetic radiation from space can penetrate the Earth's atmosphere.
  - (iii) NDVI is a remote sensing way of measuring whether vegetation is alive or dead.
- (c) Match the items given in Column A with those given in Column B:  $3\times 1=3$

Column A

Column B

- (i) Visible and (1) Reflective region NIR Spectral band
- (ii) Microwave (2) Emissive region
- (iii) Thermal band (3) 0·1 to 30 cm wavelength

2.	Write follow	short	notes	on	any	four	of	the 4×5=2	<b>o</b>
	(a)	Types of							
	(b)	Properti	es of EN	/R					

- (c) Types of Digital Images
- **ISODATA Clustering** (d)
- (e) Types of Sampling Patterns
- **(f)** Error Matrix

## Attempt any one part of the following: 3.

10

- Explain sensor systems with particular (a) emphasis on multi-spectral imaging sensor system.
- What is spectral signature? Elaborate **(b)** spectral signature of vegetation and soil.

## Attempt any one part of the following:

10

- What is image enhancement? Discuss the (a) different image enhancement techniques.
- Explain the elements of visual image (b) interpretation.