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**MGY-002** 

## POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

## **Term-End Examination**

December, 2015

MGY-002 : REMOTE SENSING AND IMAGE INTERPRETATION

Time: 2 ho	urs	<i>M</i> 6	Maximum Marks : 50		
	_	re <b>compulsory</b> cated against it.		for each	
1. Answe	er <b>all</b> parts of	the following :			
	Fill in the bla	ank spaces wit	h approp	riate 4×1=4	
	(i) SAR is a	an abbreviation	of	·	
	(ii) The v	word 'MSS'	stands	for	
	(iii) The wor	d 'INSAT ' is a ·	n acronyi	m for	
	(iv) TM is an	n abbreviation o	of	· ·	
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(b)		e whether the fo (T) or False (F)	_	statements are $3 \times 1 = 3$			
	(i) Ground truthing is not required for remote sensing based studies.						
	(ii)	Digital image processing is about manipulation of digital numbers of an image.					
	(iii)	(iii) Rayleigh scattering takes place due to particles with dimensions much smaller than the wavelength of the radiation.					
(c)	Mate	Match the items given in Column A with					
		e given in Colum		3×1=3			
		$Column \ A$		$Column\ B$			
	(i)	Nearest Neighbour	(1)	Vegetation Index			
	(ii)	NDVI	(2)	Resampling Technique			
	(iii)	IRS-P4	(3)	OceanSat -1			
Write	e sho	ort notes on	anv	four of the			
follov	ving:			4×5=20			
(a)	Imag	e Histogram					
(b)	Error Matrix						
(c)	ISODATA Clustering						
(d)	Spatial Resolution						
(e)	Across-track Scanners						
<b>(f)</b>	Remote Sensing System						
( <b>g</b> )	Image Interpretation Keys with examples						

2.

	OR				
	What is spectral signature? Elaborate spectral signature of common earth surface features, giving suitable illustrations.	10			
4.	scribe the ground truth data with emphasis on sampling pattern.				
	OR				

Define geometric correction and elaborate steps

in the geometric correction process.

10

10

Discuss in detail IRS series of Satellites.

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3.