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Reg. No.:										
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Question Paper Code: 55U21

Ph.D COURSE WORK EXAMINATION, MAY 2018

Elective

Course work

15PSE521 - REMOTE SENSING TECHNIQUES AND GIS

(Regulation 2015)

Dura	ation: Three hours	Maximum: 100 Marks					
		Answer ALI	Questions				
1.	. Which one of the following relationship between the wave length (λ) , and frequency and the speed (C) of the electromagnetic wave is correct?						
	(a) $C = v + \lambda$	(b) $C = v/\lambda$	(c) $C = v\lambda$	(d) $C = 1/v\lambda$			
2.	The sun – synchronou	CO2- R					
	(a) 800 – 1000km	(b) 1000 – 1200km	(c) 600 -800km	(d) 1100 – 1300km			
3.	The apparent roughne called	e is CO3- R					
	(a) Pattern	(b) Association	(c) Texture	(d) Tone			
4.	The graphical representation of the earth features is called						
	(a) Scale	(b) Map	(c) Projection	(d) None of these			

CO5-R

(d) None of these

The most common method of encoding spatial features from paper

(a) Manual digitizing (b) Scanning (c) Printing

PART – B (5 x 3= 15Marks)

6.	. Define remote sensing.							
7.	What are the uses of weather satellite?							
8.	Mention any two satellite data products. CO3- R							
9.	•							
10.	Wha	at is attribute data?	CO5- R					
		PART – C (5 x 16= 80Marks)						
11.	(a)	Explain the atmospheric interaction with electromagnetic radiation.	CO1-U	(16)				
		Or						
	(b)	Explain the spectral reflectance characteristics for soils, water & vegetation.	CO1- U	(16)				
12.	(a)	Give a detail specification and characteristics on meteorological satellites.	CO2- Ana	(16)				
	Or							
	(b)	Discuss in details on air borne and space borne TIR.	CO2- Ana	(16)				
13.	(a)	Write short notes on: a) Image enhancementb) Image filtering	CO3- U	(16)				
		Or						
	(b)	Explain the details interpretation keys with examples.	CO3- U	(16)				
14.	(a)	Describe the fundamental projection classification of maps.	CO4- U	(16)				
		Or						
	(b)	Explain the various components of GIS with an example.	CO4- U	(16)				
15.	(a)	Explain the role of GIS in Highway alignment studies. Or	CO5- U	(16)				
	(b)	Explain how GIS can be utilized as a land information system.	CO5- U	(16)				