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(a) Continuous

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Question Paper Code: 99171

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

Open elective

Computer Science Engineering

19UCE971-REMOTE SENSING & GIS

(Common to CSE FFE FCE MFCH IT Chemical Agri and biomedical Engineering

	branches)	ecring				
	(Regulations 2019)					
Dura	ation: Three hours Maximum: 100 Marks	,				
	Answer ALL Questions					
	PART A - $(5x 1 = 5 Marks)$					
1.	1. The spectral region of the electromagnetic radiation which passes through the atmosphere without much attenuation is known as:					
	(a) ozone hole (b) atmospheric (c) ozone window (d) black window	ck hole				
2.	Which one of the following statements regarding remote sensing is correct.	CO1- U				
	(a) The emission of electromagnetic (b) radiation from the target					
	(c) both (a) and (b) (d) Neither (a) nor (b)					
3.	Remote Sensing is unique because it provides:					
	(a) Synoptic view (b) Special information					
	(c) Superior information (d) Encrypted information					
4.	Vegetation with more chlorophyll will reflect more:	CO1- U				
	(a) Ultraviolet energy (b) Emitted energy					
	(c) near infra red (d) Thermal infrared					
5.	In Hyperspectral remote sensing the EM Spectrumis:	CO1- U				

(c) Discrete (d) None of the above

(b) Discontinuous

PART - B (5 x 3= 15Marks)

6.	Explain with neat sketches the components of remote sensing systems.				
7.	Explain in your words on passive remote sensing				
8.	•	lain the spectacle noise in radar images.		1 -U 1 -U	
9.	Wha	CO1 -U			
10.	Wha	at is Vectorization?	CO1- U		
11.	(a)	PART – C (5 x 16= 80 Marks) Explain briefly about the atmospheric scattering in detail.	CO1- U	(16)	
	(b)	Or Explain about the particle theory in detail.	CO1- U	(16)	
12.	(a)	Explain the context of sun synchronous and geosynchronous in detail.	CO1- U	(16)	
		Or			
	(b)	Explain the context of active and passive sensors in detail.	CO1- U	(16)	
13.	(a)	Interpret the concept of Digital image processing in detail. Or	CO3- App	(16)	
	(b)	Demonstrate the salient features of preprocessing in detail	CO3- App	(16)	
14.	(a)	Explain the various map analysis in detail. Or	CO1- U	(16)	
	(b)	Explain the various methods for GIS interpretation.	CO1- U	(16)	
15.	(a)	Explain in detail about the Land information system Or	CO1- U	(16)	
	(b)	Explain briefly about data input by digitization in GIS.	CO1- U	(16)	