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5.

is called

(a) Pattern

Reg. No.:					

CO<sub>3</sub>-R

(d) Tone

## **Question Paper Code: 59171**

## B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Open elective

Computer Science and Engineering

## 15UCE971- REMOTE SENSING AND GIS

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	(Com	mon to ECE, EEE, E	E, Mechanical, IT, Che	emical)	
		(Regula	ation 2015)		
Dur	ation: Three hours			Maximum: 10	00 Marks
		Answer A	LL Questions		
		PART A - (10	x 1 = 10  Marks		
1.		of the electromagnere without much atte	etic radiation which penuation is known as:	oasses	CO1- F
	(a) ozone hole	(1	o) atmospheric window		
	(c) ozone window	(0	d) black hole		
2. Which one of the following relationship between the wave length $(\lambda)$ , and frequency and the speed (C) of the electromagnetic wave is correct?					CO1- F
	(a) 800 – 1000km	(b)1000 – 1200km	(c) 600 -800km	(d) 1100 – 130	0km
3.	The sun – synchrono	us satellites are resol	ving at a height of		CO2- F
	(a) Platform	(b) Sensor	(c) Orbit	(d) None of the	ese
4.	A scanning system wavelength ranges is		over a variety of diffe	rent	CO2- F
(a) RADAR systems			(b) Multispectral scann	ning	
	(c) Microwave senso	rs	(d) Active sensors		

(c) Classification

The apparent roughness or smoothness of a region within an image

(b) Association

6.	measurement of various targets or objects in an image.					
	(a) Data acquisition	(b) Interpretation and analys	is			
	(c) Energy interaction	(d) None of these				
7.	The Refraction factor used to making a n	king a map is				
	(a) Scale (b) Map	(c) Projection (d	) None of these			
8.	The graphical representation of the earth	features is called	CO4- R			
	(a) Scale (b) Map	(c) Projection (d	d) None of th	nese		
9.	The most commonly used method of auto	omatic digitizing		CO5- R		
	(a) Manual digitizing (b) Scanning	(c) Printing (d	d) None of a	bove		
10.	DBMS stands for			CO5- R		
	(a) Database Management System	(b) Database Monitoring Sys	stem			
	(c) Database Manufacturing System	(d) Database Mixing Station				
	PART – B (	(5 x 2= 10Marks)				
11.	Write the applications of remote sensing.			CO1- R		
12.	What are the uses of weather satellite?		CO2- U			
13.	Why is image classification necessary?		CO3- U			
14.	What is Geo-Referencing?					
15.	Write short note on land information syst	tem (LIS).		CO5- R		
	PART – C	C (5 x 16= 80Marks)				
16.	(a) Explain the atmospheric interaction	with electromagnetic radiation	n. CO1- U	(16)		
	Or					
	(b) What are effects of atmospheric in radiation	nteraction with electromagnet	ic CO1- U	(16)		
17.	(a) Give a detail specification and ch satellites.	aracteristics on meteorologic	al CO2- U	(16)		
	Or	1.1.1	CO2 II	(1.6)		
	(b) Explain the characteristics of Lands	eat satellite and their sensors.	CO2- U	(16)		
18.	(a) What are the interpretation keys and Or	d explain them with examples.	CO3-U	(16)		

	(b)	interpretation.	CO3-U	(16)
19.	(a)	Describe the fundamental projection classification of maps.  Or	CO4- U	(16)
	(b)	Compare the characteristics of spatial & non-spatial data.	CO4- U	(16)
20.	(a)	Write detailed note on data models and data compression.	CO5- U	(16)
		Or		
	(b)	Explain how GIS can be utilized as a land information system?	CO5-U	(16)