Reg. No. :

Question Paper Code: 59171

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

Open elective

Computer Science and Engineering 15UCE971- REMOTE SENSING AND GIS (Common to ECE, EEE, EIE, Mechanical, IT, Chemical) (Regulation 2015)

Duration: Three hours

A

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1.	A perfectly black body						
	(a) is a diffuse emitte	er	(b) absorbs all the radiations of every wave lengths				
	(c) emits power of ev	very wave length	(d) all the above				
2.	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) $C = 1/v\lambda$			
3.	The path followed by a satellite is referred to as						
	(a) Platform	(b) Sensor	(c) Orbit	(d) None of thes	e		
4.	The ability to separate and distinguish adjacent object is called						
	(a) Energy	(b) Sensor	(c) Resolution	(d) Path			
5.	The lightness or darkness of a region within an image is known as						
	(a) Pattern	(b) Association	(c) Classification	(d) Tone			
6.	refers various land forms with different size and						
	shape. (a) Geology	(b) Topography	(c) Topology	(d) Erosion			
7.	The Refraction factor	r used to making a r	nap is		CO4- R		
	(a) Scale	(b) Map	(c) Projection	(d) None of t	hese		

8. GIS deals with the which kind of data

	(a)]	Numeric data	ric data (b) Binary data (c) Spatial data		(d) Complex data						
9.	The	most commonly	nost commonly used method of automatic digitizing				CO5- R				
	(a) Manual digitizing (b) Scanning (c) Printing				(d)]	(d) None of above					
10.	The	The most accurate method of digitizing is					CO5- R				
	(a)]	Manual digitizing	(b) Scanning	(c) Printing	e) Printing (d) None of a						
PART – B (5 x 2= 10Marks)											
11.	Define spectral signature curve.						CO1- R				
12.	Differentiate active sensor and passive sensor.						CO2- U				
13.	Enlist the elements of visual interpretation.						CO3- U				
14.	Define spatial & Non-spatial data.						CO4- R				
15.	Mention any two important methods of data input in GIS.						CO5- R				
16.	(a)	Explain the com	ponents of real R	- C (5 x 16= 80Marks) emote sensing System. Or		CO1- U	(16)				
	(b)	Describe the ele sensing data.	_	ctrum with neat sketch for re	mote	CO1- U	(16)				
17.	(a)	Give a detail sp satellites.	pecification and	characteristics on meteorolo	gical	CO2- U	(16)				
	Or										
	(b)	Discuss in detail	ls on air borne and	d space borne TIR.		CO2- U	(16)				
18.	(a)	What are the int	erpretation keys a	nd explain them with exampl	les.	CO3-U	(16)				
)r							
	(b)	Explain detail at	bout image enhand	cement techniques.		CO3-U	(16)				
19.	(a)	Describe the fun	idamental projecti	ion classification of maps.		CO4- U	(16)				
	(b)	Explain the vari		Or of GIS with an example.		CO4- U	(16)				
20.	(a)	Explain the role	-	ay alignment studies.)r		CO5- U	(16)				
	(b)	Explain how GI		as a land information system.		CO5-U	(16)				

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