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Co	de No: 127GY	R15	
	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERAB	AD	
A 255	B. Tech IV Year I Semester Examinations, November/December - 2018	A process	٠
AQ	REMOTE SENSING AND GIS (Civil Engineering)	A()	\triangle
	Max. Mark	s: 75	*
1404	te: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part.	Δ Part R	
	consists of 5 Units. Answer any one full question from each unit. Each questi	on carries	
	10 marks and may have a, b, c as sub questions.		
AG	\triangle G \triangle G \triangle RART, A \triangle G \triangle G	5 Marks)	A
1.a)	Define Photo Scale and Map scale.	[2]	•
b)	•	[3]	
c)	What is a Geo Synchronous Satellite?	[2]	
d)	* 1	[3]	
\wedge \wedge \wedge \wedge \wedge	What is a Projection? Explain the significance of Attribute data in GIS	[2]	Λ
(g)	Explain the significance of Attribute data in GIS. How to represent a Point' in vector data format?	[3]\()	$-\lambda$
h)	What are the elements of a Vector system?	[3]	*
i)	What is a Metadata?	[2]	
j)	What is the importance of Source map in GIS?	[3]	
PART - B (50 Marks)			
ΔC			Λ
72.a)	Explain the measurement of Height based on Relief displacement.		- /\
b)	What is stereoscopy? What is its application in Photogrammetry?	[5+5]	ŕ
3.a)	Explain the steps involved in measuring the height of an object from single	-vertical	
1.	aerial photograph.		
b)	Explain parallax measurement over vertical photograph.	[5+5]	
\triangle $\stackrel{\frown}{-4}$.a)	List and explain the types of 'Scattering' observed in Earth's Atmosphere.	$-\Lambda \cap$	Λ
/\\\j\\\b)	Explain the significance of Electro-Magnetic bands in Remote Sensing.	[6+4]	<u> </u>
	OR	rj	
5.a)	Explain the Energy interactions with Earth surface features.		
b)	What is a False Colour Composite? Explain its significance.	[6+4]	
6.a)	What are the Components of Geographic Information System, explain them,		
\triangle \bigcirc b)	Explain the procedure of inputting attribute data? How you will correct errors?	[6+4]	Λ
	The state of the s		/\ \
7.a)	Explain various types of Map projections.	F.C. \ 47	
b)	How to create a link between Spatial data and Attribute data.	[6+4]	
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Give notes on Geometric representation of Spatial features in GIS. 8.a) b) Define 'Topology'. Explain its significance in GIS. Explain two Vector data models used in GIS. ~9.a) List out various spatial rules that define a Topology. Explain the steps involved to integrate Raster data and Vector data. [6+4] What are the common errors observed in the creation of new data? Explain the types of Raster GIS models. b) Explain various methods used for digitization to create spatial data. --ooOoo--

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