Tota	l No.	of Questions : 8] SEAT No. :		
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		T.E. (Civil)		
	RF	EMOTE SENSING & GEOGRAPHIC INFORMATION		
		SYSTEM		
		(2019 Pattern) (Semester - II)		
Time: 2½ Hours [Max. M				
		ons to the candidates:	• 7 0	
	1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.		
	<i>2</i> )	Figures to the right side indicate full marks.		
	<i>3</i> )	Assume suitable data, if necessary.		
	<i>4</i> )	use of electronic pocket calculator is allowed in the examination.		
	5)	Neat diagrams must be drawn wherever necessary.		
0.1)	\		F. (1)	
QI)	a)	Describe Global Navigation satellite system in detail.	[6]	
	b)	Explain the necessity of GNSS in various fields.	[6]	
	c)	Compare different GNSS systems throughout the world.	[5]	
		OR	9	
Q2)	a)	Define IRNSS and Hustrate its structure.	[6]	
	b)	Define DGPS. Write sources of errors of DGPS.	<b>(6</b> ]	
	c)	Write Advantages of GPS.	[5]	
Q3)	a)	List the image interpretation keys and explains any two in detail with	h the	
		help of necessary diagram.	[6]	
	b)	Describe digital image classification (supervised & unsupervised).	<b>[6]</b>	

Q4) a) What is Digital Image Processing? What are the most common image processing functions.[6]

OR

c)

b) Differentiate between Visual and Digital image interpretation. [6]

Define Triangular Irregular network Model (TIN) and its applications.[6]

c) State the application of DEM. [6]

*P.T.O.* 

<b>Q</b> 5)	a)	Write in detail about various components of GIS.	[6]
	b)	Illustrate Cloud computing with types and applications.	[6]
	c)	Define Database? Name the types of data base.	[5]
		OR	
<b>Q6</b> )	a)	Write a note on fundamentals of Cartography and map creation in GIS	5.[6]
	b)	Define Geographical Information system and state spatial data types	s.[ <b>6</b> ]
	c)	Enlist the applications of GIS in Civil Engineering & Explain any ordetail.	ne in [ <b>5</b> ]
<i>Q7</i> )	a)	Define Raster and Vector Data types. Explain with neat diagram.	[6]
	b)	Explain the application of GIS in Demarcation of Dam Catchment.	[6]
	c) ×	What is Georeferencing of GIS data? And explain its importance in field of GIS?	the <b>[6]</b>
<i>Q8</i> )	a)	Enumerate different Attribute Data models and explain any one of the	em
20)	α)	Enumerate different Attribute Data models and explain any one of the	[6]
	b)	Write GIS data types and its representation.	[6]
	c)	Explain the application of GIS in Urban Planning.	[6]
		Explain the application of G1S in Orban Planning.	
		Write GIS data types and its representation.  Explain the application of GIS in Urban Planning.	