	o. of Questions : 8] SEAT No. :	
P261	[Total No. of Page [6003] 339	es: 2
	T.E. (Civil)	
REM(OTE SENSING & GEOGRAPHIC INFORMATION SYSTI	EM
	(2019 Pattern) (Semester - II) (301014)	
	½ Hours] [Max. Marks	: 70
1nstructi 1)	ions to the candidates: Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 Q.7 or Q.8.	
2)	Figures to the right indicate full marks.	
3)	Assume suitable data, if necessary.	
4)	Use of electronic pcoket calculator is allowed in the examination.	
5)	Neat diagrams must be drawn wherever necessary.	
Q1) a)	Give a brief account of Origin of Global positioning system.	[6]
b)	Write a note on applications of GNSS in surveying.	[6]
c)	Describe Global Navigation satellite system in detail.	[6]
	QR S	
Q2) a)	Describe sources of error in GPS.	[6]
b)	Define DGPS. Write sources of errors of DGPS.	[6]
c)	Write a note on types of GPS tracking.	.[6]
	29.	
Q3) a)	What is image acquisition in Digital image processing?	[6]
b)	Differentiate between Visual and Digital image interpretation,	[6]
c)	Define Triangular Irregular Network Model (TIN) and its applications	s.[5]
	OR OR	
Q4) a)	What is Digital Image Processing? What are the most common im	nage
2 - y - · ·)	processing functions.	[6]
b)	What is image registration?	[6]
a)	State the application of DEM	[#]
c)	State the application of DEM. P.	[5] T.O.

Q 5)	a)	Write in detail about various components of GIS.	[6]
	b)	Illustrate Cloud computing with types and applications.	[6]
	c)	Write a note on essential elements of GIS hardware.	[6]
		OR	
Q6)	a)	Write a note on fundamentals of Cartography and map creation in GIS	S.[6]
	b)	Discuss the difference between drafting software's and GIS.	[6]
	c)	Illustrate the advantages of data storage in GIS.	[6]
Q 7)	a)	Define Raster and Vector Data types. Explain with neat diagram.	[6]
	b)	Discuss applications of GIS in civil engineering.	[6]
	c)	Write a note on application in land measurement work.	[5]
		OR OR	
Q8)	a)	Enumerate different Attribute Data models and explain any one of then	n. [6]
	b)	Write a note on essential elements of GIS hardware.	[6]
	c)	Discuss the applications in irrigation planning.	[5]
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