Tota	l No	o. of Questions : 8]
PD	42	
		[6403]-13
DE	N // /	T.E. (Civil)
KE	MI(OTE SENSING & GEOGRAPHIC INFORMATION SYSTEM
		(2019 Pattern) (Semester - VI) (301014)
Time	o • 21	[Max. Marks: 70
		ons to the candidates:
	<i>1)</i>	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.
	<i>3) 4)</i>	Assume Suitable data, if necessary. Use of electronic pocket calculator is allowed in the examination.
	<i>5</i>)	Neat diagrams must be drawn wherever necessary.
Q1)	a)	What are the three segments of GPS? Describe them briefly. [6]
	b)	Compare different GNSS Systems throughout the world. [6]
	c)	Write a note on types of GPS tracking. [5]
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(2)	٥)	Write Advantages of GPS. [6]
Q 2)		
	b)	Define IRNSS and illustrate its structure. [6]
	c)	Write a short note on following: [5]
		i) GLONASS system
		ii) Galileo system
		7 5.0 j
Q3)	a)	Explain in detail spectral signature curve with neat sketch. [6]
	b)	Define Triangular Irregular Network Model (TIN) and its applications.[6]
	c)	Explain in detail the concept of post processing and pre Processing. [6]
()	OR OR
Q4)	a)	Write down the importance of image enhancement in image processing.
1)	
	b)	Write a note on digital image and analog image. [6]
	c)	Differentiate between supervised and unsupervised image classification.
		[6]

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Q5)	a)	Write a note on fundamentals of Cartography and map creation in G	IS. [6]
	b)	Discuss the difference between drafting software's and GIS.	[6]
	c)	Define Geographic Information System (GIS). What are the vari sources from which data can be derived to be used for GIS? OR	ous [5]
Q6)	a)	Write in detail about various components of GIS.	[6]
	b)	Discuss the spatial and non-spatial data with example.	[6]
	c)	Illustrate the advantages of data storage in GIS.	[5]
Q7)	a)	Discuss differences between raster and vector data formats.	[6]
	b)	Hlustrate the different projection systems and explain any one in deta-	il. [6]
	c)	What is Georeferencing of GIS data? And explain its importance in field of GIS.	the [6]
Q8)	a)	Enumerate different Attribute Data models and explain any one of the	em. [6]
	b)	Explain the application of GIS in Urban Planning.	[6]
	c)	Write down the procedure for conversion of raster data to vector da	ta. [6]
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