Total	l No.	of Questions : 8] SEAT No. :
PB	375	[6262]-13 [Total No. of Pages :2
		T.E. (Civil Engineering)
RE	MO	TE SENSING & GEOGRAPHIC INFORMATION SYSTEM
		(2019 Pattern) (Semester- II) (301014)
		Hours ] [Max. Marks : 70
Instr		ns to the candidates:
	1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
	2)	Neat diagrams must be drawn wherever necessary.
	3)	Figures to the right side indicate full marks.
	<i>4</i> )	Assume suitable data if necessary.
	<i>5</i> )	Use of electronic pocket calculator is allowed in the examination.
		O'KO
<b>Q</b> 1)	a) ,	What are the three segments of GPS? Describe them briefly. [6]
	b)	Write a short note on following: [6]
		i) GLONASS system
		ii) Galileo system.
	c)	Write a note on types of GPS tracking. [5]
		OR
<b>Q</b> 2)	a)	Describe sources of error in SBPS. [6]
	b)	Define IRNSS and illustrate its structure. [6]
	c)	What is augmentation and explain about satellite-based augmentation.[5]
<i>03</i> )	a)	Explain in detail spectral signature curve with neat sketch. [6]

Differentiate between supervised and unsupervised image classification.

[6]

Write down the need of digital image processing.

OR

P.T.O.

<b>Q4</b> )	a)	Write a note on digital image and analog image.	<b>[6]</b>
	b)	Define Triangular Irregular Network Model (TIN) and its applications	.[6]
	c)	Discuss the steps in image processing system.	[6]
<b>Q</b> 5)	a)	Illustrate the advantages of data storage in GIS.	[6]
	b)	Discuss the difference between drafting software's and GIS.	[6]
	c)	What are the functionalities of GIS?	[5]
		OR	
<b>Q6</b> )	a)	Write in detail about various components of GIS.	<b>[6]</b>
	b)	Define Geographic Information System (GIS). What are the vari sources from which data can be derived to be used for GIS?	ous [6]
	2)	9. V	
	c)	Discuss the concept of data transformation in GIS.	[5]
	0	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
<b>Q</b> 7)	a)	Discuss differences between raster and vector data formats. What to data is raster format best suited for?	ype [6]
	b)	Explain the application of GIS in Demarcation of Dam Catchment.	[6]
	c)	Illustrate the different projection systems and explain any one in detail	.[6]
	,		
		G R	$\gamma$
<b>Q</b> 8)	a)	Enumerate different Attribute Data models and explain any one of the	em. [6]
	b)	Explain in detail how to use remote sensing data in GIS.	[6]
	c)	What is Georeferencing of GIS data? And explain its importance in	the
		CL 1.1 C CYCO	[6]
		field of GIS?	
	1		
	•		
		96.	

[6262]-13