Seat No.: \_\_\_\_\_

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2021 Subject Code:3150617 Date:15/12/2021			
Subject Name:Remote Sensing and GIS Time:02:30 PM TO 05:00 PM Instructions:			Total Marks: 70
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Simple and non-programmable scientific calculators are	allowed
Q.1	(a)	Define Remote Sensing.	03
	(b)	What are the dis advantages of Remote sensing?	04
	(c)	Explain concept of remote sensing.	07
Q.2	(a)	What are the atmospheric window?	03
	(b)	Explain the concept of orbital calender.	04
	(C)	Write short note on:Active and Passive Remote Senser.	07
OR OR			
	(c )	What do you understand by 'map'? Differentiate between to	opographic
		And themetic map.	07
Q.3	(a)	What is resolution for sensor in Image?	03
	(b)	What are the seven elements in remote sensing?	04
	(c)	Explaindifferent resolution with their significance.	07
		OR	
Q.3	(a)	Explain plateform of remote sensing,	03
	(b)	Explain image interpretation strategies.	04
	(c)	Give brief idea about GSLV and PSLV	07
Q.4	(a)	What do you understand by GIS?	03
	(b)	Explain various components of GIS?	04
	(c)	Explain 'vector data model' and 'raster data model' in GIS.	07
OR			
Q.4	(a)	Define Meta data, Attribute data, spacial data.	03
	(b)	What are the advantages of GIS over map.	04
	(c)	Explain input data for GIS and GIS products.	07
Q.5	(a)	Define data encoding.	03
	(b)	Eplain Georeferencing coordinate system.	04

(c) Explain Error in GIS data and managing the errors.

## OR

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04

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- Q.5 (a) Explain surface modelling in GIS.
  - (b) Describe features of important GIS software packages.
  - (c) Write about the function of DBMS.