GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER– V(OLD) EXAMINATION – SUMMER 2019

Subject Code:150606   **Date:10/06/2019**

Subject Name:Disaster Assessment Using Geospatial Techniques

Time:02:30 PM TO 05:00 PM   **Total Marks: 70**

Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	What is satellite? How satellite can be classified?	**07**
	(b)	Explain types of natural disaster.	**07**
Q.2	**(a)**	Explain concept of G.I.S. (Geographic Information System)	**07**
	(b)	Explain basics of remote sensing with its advantages and limitations.	**07**
		OR	
	(b)	Explain the fundamental steps involved in digital image processing.	**07**
Q.3	**(a)**	What is Sensor? Describe Air Born and Space Born sensors.	**07**
	(b)	Give a brief idea about GSLV and PSLV	**07**
		OR	
Q.3	**(a)**	Explain basics of relief and rescue operation by disaster assessment.	**07**
	(b)	Describe the process of radar remote sensing.	**07**
Q.4	**(a)**	Discuss the various errors affecting the GPS.	**07**
	(b)	Describe supervised classification. What are the steps involve in supervised classification?	**07**
		OR	
Q.4	**(a)**	Explain elements of visual image interpretation.	**07**
	(b)	Explain the systems of image and classification in remote sensing.	**07**
Q.5	**(a)**	How is data reception, transmission and processing done in remote sensing?	**07**
	(b)	What are the spatial data models? Explain them.	**07**
		OR	
Q.5	**(a)**	Write note on Database management system.	**07**
	(b)	Write note on Indian Space Program	**07**

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