## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-V- EXAMINATION - SUMMER 2016** 

Date: 17/05/2016

Subject Code: 150606

<b>Subject Name: Disaster Assessment using Geospatial Techniques (Institute</b>				
Elective-II ) Time: 02:30 PM to 05:00 PM Instructions:  1. Attempt all questions.			<b>is: 70</b>	
		<ol> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>		
Q.1	(a) (b)	Describe the advantages and limitation of remote sensing.  Differentiate between PSLV and GSLV.	07 07	
Q.2	(a) (b)	Explain with examples, the need of digital image processing.  Describe supervised classification. What are the steps involve in supervised classification?	07 07	
		OR		
	<b>(b)</b>	Write short note on GPS receivers.	07	
Q.3	(a) (b)	Describe the process of radar remote sensing. Explain the concept of "Over lay analysis".  OR	07 07	
Q.3	(a)	Discuss the concept of spectral signature. What is its significance in remote sensing?	07	
	<b>(b)</b>	Explain elements of visual image interpretation.	07	
Q.4	(a) (b)	Explain the function of DBMS.  Describe with examples the use of GIS software in disaster management.  OR	07 07	
Q.4	(a) (b)	Explain the different natural disasters and their effects in brief. Discuss the various errors affecting the GPS.	07 07	
Q.5	(a) (b)	What is metadata? Describe its importance in GIS in detail.  Discuss the features of Geomedia and Arc GIS.  OR	07 07	
Q.5	(a)	How can geospatial technique be helpful for minimizing the impact of cyclone?	07	
	<b>(b)</b>	What are the various components of GIS? Discuss each of them in brief.	07	
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