GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- V • EXAMINATION - WINTER 2016

Subject Code: 150606Date: 28/11/2016Subject Name: Disaster Assessment using Geospatial TechniquesTime: 10:30AM - 01:00PMInstructions:

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

Q.1	(a)	How can Geospatial Assessment Technique be helpful for minimizing the	07
	(b)	impact of an earthquake? What is Disaster? Explain the types of Disaster in brief.	07
Q.2	(a) (b)	What is Sensors? Explain types of Sensors. Explain the systems of image and classification in remote sensing. OR	07 07
	(b)	What are the applications of and GIS in disaster management?	07
Q.3	(a) (b)	Explain different resolutions with their significance. Why analysis of Geospatial Data is required? Enumerate the methods used for the same and explain each method in short.	07 07
•		OR	
Q.3	(a) (b)	What are the advantages of GIS over map and Computer Aided Designs? Explain the function of DBMS.	07 07
Q.4	(a)	What are Raster and Vector? Write the basic differences between Raster and Vector.	07
	(b)	Explain various interaction of incident of Electromagnetic energy with the atmosphere in detail.	07
Q.4	(a) (b)	OR Explain types of Satellite Orbits. Draw a sketch to explain how a Remote Sensing System works to capture data and transfer it to the laser. State specific practical application of the infrared region of Electromagnic Spectrum.	07 07
Q.5	(a) (b)	Explain platforms of Remote Sensing. Write a short note on: (1) ESRI (2) Network Analysis. OR	07 07
Q.5	(a)	Why it is necessary to find out errors of GPS? Explain Atmospheric error and Satellite Clock error in detail.	07
	(b)	How is Data Reception, Transmission and Processing done in Remote Sensing?	07
		·	
