Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE- Vth SEMESTER-EXAMINATION - MAY/JUNE - 2012

•	oject code: 150606 Date: 07/06/2		/06/2012
-		Jame: Disaster Assessment using Geospatial Techniques 30 pm – 05:00 pm	Iarks: 70
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		empt all questions.	
		ke suitable assumptions wherever necessary.	
		res to the right indicate full marks.	
Q.1	(a)	Define Remote Sensing. Explain its advantages and limitations.	07
	(b)	Give a brief idea about GSLV and PSLV.	07
Q.2	(a)	What is Sensor? Describe Air Born and Space Born sensors.	07
	(b)	What do you know about IRS series? Explain in brief.	07
	(1.)	OR	
	(b)	Write a note on: i) Weather sensors, ii) Spectrometers	07
Q.3	(a)	Explain systematic corrections and non-systematic corrections with example.	07
	(b)	What do you understand by GIS? Give brief explanation of it. Also explain various components of it. OR	07
Q.3	(a)	Explain different functions and basic working principles of GPS?	07
	(b)	Explain basic concept of Metadata? Mention its importance in GIS in detail.	07
Q.4	(a)	Why is it necessary to find out errors of GPS? Explain atmospheric error and satellite clock error in detail.	07
	(b)	What are the advantages of GIS over map and Computer Aided Designs! OR	07
Q.4	(a)	Describe supervised classification. What are the steps involved in supervised classification? Give detailed explanation of each step.	07
	(b)	Write a short note on: i) ESRI, ii) Network analysis.	07
Q.5	(a)	Why analysis of Geospatial Data is required? Enumerate the methods used for the same and explain each method in short.	07
	(b)	What are the data sources of SIS? Give an idea of each of them.	07
		OR	
Q.5	(a)	Explain Raster data model with its detailed classification.	07
	(b)	"Remote Sensing and GIS software are useful for assessment of Natural Disasters". Prove this statement true with brief description of at least two examples.	07

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