GUJARAT TECHNOLOGICAL UNIVERSITY ME- SEMESTER II– EXAMINATION – SUMMER 2015

Subject Name: Geo Spatial Techniques			03/06/2015 Marks: 70	
Q.1	(a) (b)	What is GIS? Explain the key components of system. Prepare a detailed note on the applications of GIS.	07 07	
Q.2	(a)	Describe divisions of electromagnetic spectrum and explain suitability of different wavelengths groups for remote sensing.	07	
	(b)	Explain the concept of DBMS and RDBMS. OR	07	
	(b)	Elaborate on the process to minimize errors in GIS database.	07	
Q.3	(a) (b)	Classify and explain the types of image resolution. What is georeferencing? Why it is important?	07 07	
Q.3	(a) (b)	Define: (A) Geo-informatics, (B) Cartography, (C) Geodesy, (D) Database system, (E) schema, (F) Query, (G) Sequel, How data capturing process is carried out for GIS?	07 07	
Q.4	(b) (b)	Differentiate between raster and vector models of GIS. Elaborate on concept of proximity polygons. Also mention its utility in GIS. OR	07 07	
Q.4	(a) (b)	What are the advantages and limitations of remote sensing? Prepare an elaborative note on active remote sensing.	07 07	
Q.5	(a) (b)	Prepare a detailed note on coordinate system. Enlist various types of it. What is Digital Terrain Model? Explain its applications. OR	07 07	
Q.5	(a) (b)	Explain various factors affecting GPS data quality. Elaborate on spatial data and attribute data.	07 07	
