Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER– II(New course) • EXAMINATION (Remedial) – WINTER- 2015

Subject Code: 2721311 **Date: 14/12/2015**

Subject Name: Geo Spatial Techniques

Time:2:30 pm to 5:00 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)**	Define: (1) Adjacency, (2) Arc, (3) Attribute, (4) Cartogram, (5) Datum, (6) Geoid, and (7) Raster/ grid.	**07**
	(b)	Describe the relationship between remote sensing and GIS applications.	**07**
Q.2	**(a)**	Enlist and explain the criteria for air-photo interpretation.	**07**
	(b)	Explain any two geospatial data acquisition methods.	**07**
		OR	
	(b)	Elaborate the structure of GIS.	**07**
Q.3	**(a)**	Explain the map projections.	**07**
	(b)	Describe the concept of DBMS and RDBMS. Also, mention its importance in GIS.	**07**
		OR	
Q.3	**(a)**	Differentiate between raster data and vector data.	**07**
	(b)	List out types of errors in geographic data and remedial measures for each of it.	**07**
Q.4	**(a)**	Explain GIS data modeling.	**07**
	(b)	Provide details on queries ï importance and process.	**07**
		OR	
Q.4	**(a)**	How is the descriptive statistics used in GIS?	**07**
	(b)	Explain: Network analysis in GIS.	**07**
Q.5	**(a)**	How to perform the surface modeling? Elaborate the process.	**07**
	(b)	Describe a case of better urban management using GIS.	**07**
		OR	
Q.5	**(a)**	Explain the components in the GPS. Also, mention factors affecting the performance of the GPS.	**07**
	(b)	What are the applications of the GPS? Enlist.	**07**

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