Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-V • EXAMINATION – WINTER 2015

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Subject Name: Geographical Information Systems (GIS) Date: 10/12/2015 Time: 10.30 am to 01.00 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)	Answer the following question in short. (1) What are the spatial elements in GIS?	07
		(2) Define term: Attribute Data.	
		(3) What is GIS?	
		(4) What is DEM?	
		(5) What is the different between data and information?	
		(6) What is a model?	
		(7) Define term: Entity and Attribute.	
	(b)	Attempt the following.	
		(1) What do you mean by simple lists file?	02
		(2) What is GPS?	02
		(3) Define term: Digitizing.	02
		(4) Give Definition: Data Stream.	01
Q.2	(a)	What are the methods of raster GIS data model?	07
	(b)	Explain different type of spatial measurement level.	07
	` ′	OR	
	(b)	Write short note on map projection.	07
Q.3	(a)	What are basic methods of rater data input?	07
	(b)	Explain high level line object with different type of network.	07
		OR	
Q.3	(a)	Write short note on interpolation method.	07
	(b)	Describe the approach to identifying high level point objects.	07
Q.4	(a)	How to measuring polygons?	07
	(b)	Discuss the different type of regions.	07
		OR	
Q.4	(a)	Explain the revoing window of filter.	07
Q.4	(b)	Write short note on types of buffer.	07
Q.5	(a)	Write short note on cartographic map output.	07
	(b)	Explain the various point pattern in spatial arrangement.	07
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Q.5	(a)	1 1 0	07
	(b)	Explain gravity model with suitable example.	07
