## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **BE - SEMESTER- VI• EXAMINATION – SUMMER 2015**

v			Date: 18/05/2015	
Subject Name: Computer Application in Mining Time: 10.30am-01.00pm Total Marks: 7 Instructions:  1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.			70	
Q.1	(a)	Explain difference between input and output device of computer. Write a note	07	
	<b>(b)</b>	on 'Laser printers'. Explain pixels and frame buffers.	07	
Q.2	(a) (b)	Explain types of schema maintained by the DBMS. Add a note on: (1) Electronic Pen (2) Voice response systems.	07 07	
		OR		
	<b>(b)</b>	Write a note on data scanning devices.	07	
Q.3	(a) (b)	Define vector. Explain the types of co-ordinate system.  Describe the rotation reposition of 2D objects.  OR	07 07	
Q.3	(a) (b)	How the lines are projected on the screen in matrix form. Add a note on DDA. Explain Bresenham's line algorithm.	07 07	
Q.4	(a)	Define the following terms: (1) RAM (2) Database Management System (3) Keyboard (4) metadata (5) Redundancy (6) Monitor (7) Geodata	07	
	<b>(b)</b>	Write a note on plotters and digitizers.	07	
0.4	( )	OR	^ <b>=</b>	
Q.4	(a) (b)	Write a note on circle – Generation algorithms. Write a note on Three – dimensional graphics transformations.	07 07	
Q.5	(a)	What is CAD? Give applications of availing computer aided drafting and designing Services.	07	
	<b>(b)</b>	Explain the model co-ordinate system and user co-ordinate system in AutoCAD.	07	
0.5	(c)	OR Write the notes on Light page joy sticks and track hall	Λ7	
Q.5	(a) (b)	Write the notes on Light pens, joy sticks and track ball. Explain types of printers.	07 07	

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