Seat No.:	Enrolment No.

Subject Code: 640008

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- IV EXAMINATION - WINTER 2016

Date: 26/10/2016

-		ame: Computer Graphics (CG)		
		1	Total Marks: 70	
Instru	2. N	attempt all questions. Take suitable assumptions wherever necessary. Take to the right indicate full marks.		
0.4				
Q.1	(a)	Explain the following terms in brief: 1. Aspect ratio 2. World Co-ordinates 3. Aliasing. 4. Refresh buffer 5. Vanishing Point 6. Homogenous coordinates 7. View port	14	
Q.2	(a)	Write down the various applications of Computer Graphics.	07	
	(b)	Write a short note on Random Scan Display	07	
	(b)	OR Write a short note on Raster Scan Display	07	
Q.3	(a)	Write a short note on the various 2-D transformations: Translation, Scaling, Rotation	07	
	(b)	Write a short account on DDA line algorithm. OR	07	
Q.3		Write a short note on Bresenham Line Algorithm with suitable example.	07	
	(b)	Write a short note on 2D Reflection (along all possible axis) and 2D shear.	07	
Q.4	(a)	Write short notes on: 1. 2D point clipping 2. Output primitives	07	
	(b)	Write a short note on Line Attributes.	07	
Q.4	(a)	OR Explain the following:	07	
Ų.4	(a)	1. Depth Cueing 2. Digitizers	U I	
Q.4	(b)	Explain any three OpenGL functions with parameters.	07	
Q.5		Explain Cohen-Sutherland Line Clipping Algorithm with example Write a brief account on parallel projection method.	07 07	
	(b)	OR	U	
Q.5	(a) (b)	Explain Sutherland-Hodgeman Polygon Clipping Algorithm with example Write a brief account on perspective projection method. ***********************************	07 07	