## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## MCA - SEMESTER- IV EXAMINATION - WINTER 2016

Subje	ect C	et Code: 640008 Date: 26/10/ 2016 et Name: Computer Graphics (CG)		
_	:10.3 etions: 1. A 2. M	<b>≛</b>	ter Graphics (CG) ) pm  Total Marks: 70  ions. cumptions wherever necessary. the indicate full marks.  Illowing terms in brief: ratio Co-ordinates g. a buffer	
Q.1		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) (b)	Write down the various applications of Computer Graphics. Write a short note on Random Scan Display OR	07	
	<b>(b)</b>	Write a short note on Raster Scan Display	07	
Q.3	(a)	Write a short note on the various 2-D transformations: Tra	inslation, Scaling, 0'	
	<b>(b)</b>	Write a short account on DDA line algorithm.  OR	07	
Q.3	(a) (b)	Write a short note on Bresenham Line Algorithm with suitable Write a short note on 2D Reflection (along all possible axis) a		
Q.4	` '	<ol> <li>2D point clipping</li> <li>Output primitives</li> </ol>	07	
	<b>(b)</b>	Write a short note on Line Attributes.  OR	07	
Q.4	(a)	Explain the following:  1. Depth Cueing 2. Digitizers	07	
<b>Q.4</b>	<b>(b)</b>	Explain any three OpenGL functions with parameters.	07	
Q.5	(a) (b)	Explain Cohen-Sutherland Line Clipping Algorithm with example Write a brief account on parallel projection method.  OR	0'	
Q.5	(a) (b)	Explain Sutherland-Hodgeman Polygon Clipping Algorithm with e Write a brief account on perspective projection method.  ***********************************	xample 0°	