M.C.A. IV Semester	
Examination, November 2019	
Computer Graphics And Multimedia	
Time : Three Hours	
Maximum Marks: 70)
iote: i) Attempt any five questions.	
ii) All questions carry equal marks	
a) What is Cathode Ray Type? Explain the working of CRT and explain function of each component of CRT with the help of diagram.	1
b) Write down Mid Point Circle drawing algorithm. Draw a circle of radius 5 about origin with the help of this algorithm.	a s 7
List out differences between: Noster scan graphics Vs Random scan graphics	7
 ii) Shadow mask CRT Vs Beam penetration CRT b) Explain Bresenham's algorithm for drawing line. Give one appropriate example to support your algorithm. 	e 7
3. a) Explain Boundary fill and Flood fill algorithm for polygon filling.	n 7
 Rotate a triangle A(3, 0), B(8, 2), C(5, 5) by 30° about origin. 	t 7
4. a) Explain about composite transformation in general and explain two successive rotations with matrix representation.	d x 7
b) Explain Sutherland Hodgeman for polygon clipping	

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	a)	Explain the following color model in detail	7
	,	i) RGB color model	
		ii) HSV color model	
	b)	Differentiate between	7
		i) Diffuse reflection Vs Specular reflection	
		ii) Phong shading Vs Gouraud shading	
6.	a)	What is Z Buffer technique? Write the use of depth frame buffer.	h and 7
	b)	What is Projection? Write down the difference in pa and perspective projection.	rallel 7
7.	a)	Determine the blending function for cubic (i.e., n Bezier curve and also list out the properties of B curve.	
	b)	Explain the different components of Multimedia.	7
8.	a)	What are Multimedia and presentation tools?	7
	b)	Write short notes:	7
		i) MPEG	
		ii) JPEG	-
		iii) RIF	
		iv) SCSI	
