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MCAH 303

Third Semester M.C.A. Degree Examination, December 2018 COMPUTER GRAPHICS AND MULTIMEDIA

Time: 3 Hours Max. Marks: 70

Note: Answer any five questions. All questions carry equal marks.

1.	a)	Give the applications of Computer Graphics.	7
	b)	Explain the working principle of CRT display.	7
2.	a)	Explain DDA line drawing algorithm.	7
	b)	Explain about different half toning techniques popularly used. What are their relative advantages?	7
3.	a)	Write down and explain midpoint circle drawing algorithm.	7
	b)	Compare and contrast between RGB and CMY colour models.	7
4.	a)	Explain different methods of character generation.	7
	b)	Discuss the different antialiasing techniques.	7
5.	a)	Explain even-odd rule for finding inside-outside point of a Polygon.	7
	b)	Prove the following:	7
		i) Two successive scaling operations are multiplicative.ii) Two successive translation operations are additive.	
6.	a)	Show that shear transformation may be expressed in terms of rotation and scaling.	7
	b)	How rotation about arbitrary point is done in 3-D? Explain with an	
		example.	7
7.	,	Discuss transformation from world to viewing coordinates in 3D viewing.	7
	b)	Write a note on Sutherland-Hodgeman polygon clipping.	7
8.	a)	Explain briefly the classification of multimedia.	7
	b)	Write a note on multimedia software.	7