Mid-West University

Examinations Management Office

Semester End Examinations 2081

Bachelor level/ B.E. Computer/ 5th Semester

Time: 3 hours

Full Marks: 50

Pass Marks: 25

161

Subject: Computer Graphics (CO451/CO511)

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6. .:		What are the key sections of a project report? Provide a sample structure by considering graphical Project.	[6]
1	c)	Explain in detail about the Gourand model.	[4]
	b)	Explain the Z-buffer algorithm for hidden surface removal with an example.	[4]
5.	a)	Explain the difference between parallel and perspective projections in 3D graphics with examples	[4]
٦,	b)	What is file format? Describe various file formats that are used in computer graphics.	[4]
4.	a)	Discuss the challenges of using machine-dependent graphical languages in modern applications.	[4]
1 .	c)	A triangle with vertices A(2,3), B(5,4), C(4,7) is first scaled by $(Sx = 2, Sy = 3)$ and then translated by $(Tx = -1, Ty = 2)$. Finally rotated by 60° . Compute the final coordinates of the transformed triangle.	[4]
	b)	Derive the rotation transformation matrix and explain how it is used in computer graphics.	[4]
3.	a)	For a line segment from (3, 2) to (9, 7), calculate the pixel positions using Bresenham's Line Algorithm.	[4]
	b)	Differentiate between raster and vector display system with its architectures and diagrams.	[4]
2.	a)	What is a graphics tablet? Explain advanced resister graphic architecture.	[4]
1.		Describe the advancements in computer graphics from the 1990s to the present.	[4]
	- -	Figures in the margin indicate full marks. Assume suitable values, with a stipulation, if necessary. Candidates are required to answer the questions in their own words as far as possible.	
	-	Attempt all the questions	