R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, March - 2021
COMPUTER GRAPHICS
(Common to CSE, IT)

Time: 3 Hours   Max. Marks: 75

Answer any five questions
All questions carry equal marks
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1.a)	Give explanation in detail about the raster - scan displays.	
b)	What are the steps involved in Bresenham's algorithm for line drawing?	[7+8]
2.a)	Briefly explain about flood-fill algorithm.	
b)	Write a short note on video display devices.	[7+8]
3.a)	Explain in detail about composite transformations.	
b)	Show the reflection about the y=x is attained by reverse co-ordinates.	[7+8]
4.a)	Explain Cohen Sutherland algorithm with suitable example.	
b)	Write a short note on windowing.	[8+7]
5.a)	Explain various methods for generation of curves and surfaces.	
b)	List properties of Bezier and B-Spline curves.	[7+8]
6.a)	Briefly explain about 3D reflection.	
b)	Derive the matrix form for Translation in 3-D graphics.	[7+8]
7.a)	List and explain about steps of animation.	
b)	Discuss the characteristics of key frame animation.	[7+8]
8.a)	Explain in detail about depth-buffer algorithm.	
b)	Explain in detail about binary-space partitioning trees.	[7+8]

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