R18

Code No: 155AM

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

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