**R18** 

## Code No: 155AM

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, August - 2022 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)	List and explain some applications of large screen displays. Explain about the characteristics of Direct View Storage Tube devices.	[8+7]
2.a) b)	Explain the flood fill algorithm.  Digitize the line with end-points (20, 10) and (30, 18) using DDA algorithm.	[8+7]
3.a) b)	Derive the transformation matrix for reflection about $y = mx + b$ . What is meant by composite transformation? When is it used? Explain.	[8+7]
4.a) b)	Explain the flow chart corresponding to cohen-suther land line clipping algorithm. Describe the different ways of representing points in 2-D.	[8+7]
5.a) b)	Explain the process of generating curves and surfaces using hermit method. Write a short note on B-Splines.	[8+7]
6.a) b)	Define view volume. Explain about it briefly.  Describe the procedure for reflecting about an arbitrarily selected plane.	[8+7]
7.a) b)	Explain about depth buffer algorithm. Write a short note on back face detection.	[8+7]
8.a) b)	Discuss about the steps in design of animation sequence. Explain the characteristics of Key frame animation.	[8+7]

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