

(DEEMED TO BE UNIVERSITY)
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Continuous Assessment Examination 1 (Aug. 2021)

Program : B.E/B.Tech - CSE/IT Max. Marks : 30

Course : Computer Graphics and Multimedia Applications Time : 1 Hour

Course code: SCSA1503 Sem :V

Batch : 2019-2023 Date : 11-8-2021

Part-A Answer ALL the questions $(5\times2=10)$

Q.No	Questions	CO
1.	In raster graphics, what is true-color system? Explain	CO(1)
2.	List the various input devices that are adopted in a graphics system	CO(1)
3.	Find the xincrement and yincrement using DDA algorithm given (xa,ya)=(10,15) and (xb,yb)=(20,18).	CO(1)
4.	Determine the steps required for window-viewport transformation	CO(2)
5.	List the various types of clipping algorithms	CO(2)

Part-B Answer ALL the questions (2×10=20)

Q.No	Questions	CO			
6.	Let $(x1,y1) = (5,5)$ and $(x2,y2) = (12,10)$. Use Bresenham line drawing algorithm and with algorithm explain how the intermittent points are generated	CO(1)			
(OR)					
7.	Adopt mid-point subdivision algorithm for drawing circle and with algorithm show a circle can be constructed with center coordinates (5,5) and radius 10.	CO(1)			

8.	a.	Given a triangle ABC, with A (2,2), B (4,6) and C (6,2). Find the reflected position of triangle i.e., with respect to the y-axis.	CO(2)			
	b.	Shear with respect to Y axis, given A(0,0), B(0,4), C(3,4), D(3,0) with Shy=2.				

(OR)

