CONTINUOUS ASSESSMENT TEST - I

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

Course : COMPUTER GRAPHICS AND MULYIMEDIA SYSTEMS   **Time : 1 Hour**

Course code : SCS1302   **Sem : V**

Batch : 2018-2022   **Date : 22.09.2020**

Part-A   **Answer ALL the questions**   **(5×2=10)**

Q.No	Questions	CO (L)
1.	Is refreshing mandatory in CRT and DVST? Justify the answer.	1(2)
2.	Translate the line with endpoints (3,1) and (5,4) given, tx=3, ty=3.	2(5)
3.	Find the xincrement and yincrement using DDA algorithm given (xa,ya)=(11,15) and (xb,yb)=(17,18).	1(1)
4.	Narrate the use of Shadow Mask in CRT.	1(3)
5.	Rotate the point P(3,5) with angle, Ɵ =90 degree.	2(4)

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

Q.No	Questions	CO (L)
6.	Construct a Line using Bresenhams Line drawing algorithm with (xa,ya)=(11,15) and (xb,yb)=(17,18). (Algorithm required, no need derivation)	1(4)
(OR)		
7.	Construct a Circle using Midpoint Circle drawing algorithm with (xc,yc)=(0,0) and r=6. (Algorithm required, no need derivation)	1(4)

Q.No	Questions	CO (L)
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. b. Shear with respect to Y axis, given A(0,0), B(0,4), C(3,4), D(3,0) with Shy=2.	2(5)
(OR)		
9.	Clip the following line using Cohen Sutherland Line Clipping algorithm. Write the algorithm. (xwmin, ywmin) =(130,130) and (xwmax,ywmax)=(350,400). Line L1 with A(200,250) and B(400,150).	2(5)