

ACTIVITY CODE:1903041031

(B.Sc.) 6th Semester (Honours) Examination, October 2020

Subject: Computer Science

Course ID: 61522

Course Code: SH/CSC/602/C-14 PR

Course Title: COMPUTER GRAPHICS

Full Marks: 10

Time: 1 Hr.

The figures in the margin indicate full marks

Problem = 06 , Viva Voce=04

1. Answer *any one* of the following questions: (6)
- a) Write a program to implement Bresenham's line drawing algorithm.
 - b) Write a program to implement mid-point circle drawing algorithm.
 - c) Write a program to clip a line using Cohen and Sutherland line clipping algorithm.
 - d) Write a program to clip a polygon using Sutherland Hodgeman algorithm.
 - e) Write a program to apply various 2D transformations on a 2D object (use homogeneous coordinates).
 - f) Write a program to apply various 3D transformations on a 3D object and then apply parallel and perspective projection on it.
 - g) Write a program to draw Hermite/Bezier curve.
 - h) Write a program to implement DDA line drawing algorithm.

