

Code: CS5T3, EM5T2

III B.Tech - I Semester – Regular Examinations - November 2015

COMPUTER GRAPHICS
(Common for CSE & ECM)

Duration: 3 hours

Max. Marks: 70

Answer any FIVE questions. All questions carry equal marks

- 1 a) Explain the applications of computer graphics in the area of education and training. 5 M
- b) Write in detail about Graphics pipeline 9 M
- 2 a) Explain the Following. 6 M
 - i) RGB Color System.
 - ii) Indexed Color system.
- b) Write about main, display and init functions 8 M
- 3 a) Explain in detail about various input devices. 6 M
- b) Briefly explain display List. 8 M
- 4 a) Explain about basic transformations. 7 M
- b) Write a short note on three dimensional primitives. 7 M

- 5 a) Explain about homogeneous transformations. 7 M
- b) Write in detail about Interpolation 7 M
- 6 Explain about classical viewing and computer viewing. 14 M
- 7 a) Explain about PHONG'S Reflection model. 10 M
- b) Explain Shading of the Sphere model. 4 M
- 8 a) List out various line clipping algorithms and explain in detail about Cohen Sutherland Line Clipping Algorithm. 8 M
- b) Clip the Below Given line end point Using Cohen Sutherland Line clipping Algorithm. 6 M
- Window co-ordinates (100,100) (200,200)
- Line end points (70, -10)(220, 300)