

B.Sc. (I. T.) Semester- 5

Paper No: 502 – COMPUTER GRAPHICS USING C++

Time: 2.30 Hrs.

Nosv = 2014 - 4805

Total Marks:70

- Q- 1** A. Write short note on application of computer graphics 07
 B. Explain software standards 07

OR

- Q- 1** A. Explain raster graphics in details 07
 B. Define: pixel, resolution, bitmap, pixmap, frame buffer, initgraph(), closegraph() 07

- Q- 2** A. Write down an algorithm for DDA line drawing 07
 B. Write down an algorithm for mid point circle technique 07

OR

- Q- 2** A. Write down bresenham's line drawing algorithm 07
 B. Write down midpoint ellipse drawing algorithm 07

- Q- 3** A. Explain an attributes of line 07
 B. Explain an attributes of text 07

OR

- Q- 3** A. Explain inside outside test for polygon filling 07
 B. Explain character generation in details 07

- Q- 4** A. Explain scaling and rotation in details 07
 B. Explain Homogeneous coordinates 07

OR

- Q- 4** A. Explain Raster Animation in details 07
 B. Explain Morphing in details 07

- Q- 5** A. Explain Cohen Sutherland line clipping with an example 07
 B. Explain polygon clipping in details 07

OR

- Q- 5** A. Explain Sutherland Hodgeman polygon clipping with an example 07
 B. Write down on window to viewpoint coordinate transformation 07