

People's Education Society's
Dr.Ambedkar College of Commerce & Economics, Wadala, Mumbai – 400 031

S.Y.B.Sc. (IT) Third Semester Examination October 2015
Sub: Computer Graphics

Date: 19/10/2015

Marks: 75

Time: 8.00 am to 10.30 am

Note: All questions are compulsory.

- Q.1) Attempt any two from the following**
- a) Explain Raster scan system? 5
 - b) Explain working model of CRT? 5
 - c) Write DDA Line drawing algorithm? 5
- Q.2) Attempt any two from the following**
- a) What is Transformation? Explain scaling transformation? 5
 - b) Find out resultant point coordinate of point p (3, 4) after rotating by 90 in clockwise direction and reflect along x axis? 5
 - c) Explain Rotation transformation in detail? 5
- Q.3) Attempt any two from the following**
- a) Write a short note on “Window to viewport transformation”. 5
 - b) Describe Perspective projection? 5
 - c) Explain parallel projection? 5
- Q.4) Attempt any two from the following**
- a) What is clipping? Explain point clipping? 5
 - b) Explain scan line polygon filling algorithm? 5
 - c) Explain line clipping algorithm? 5
- Q.5) Attempt any two from the following**
- a) What is visibility and hidden surfaces? 5
 - b) Explain back face removal algorithm? 5
 - c) Write a short note on “Z buffer algorithm”. 5

Q.6) Attempt any two from the following

- a) What is animation? 5
- b) Explain Key frame animation? 5
- c) Write a short note on “components of animation sequence”. 5

Q.7) Write a short note on following(any 3) 15

- a) Line attributes
- b) Any two Input devices
- c) Color CRT system
- d) Translation transformation