

No. of Printed Pages : 03

Roll No.

E-212

B. C. A. EXAMINATION, May 2017

(Fifth Semester)

(B. Scheme) (Re-appear Only)

(BCA)

BCA-303-B

COMPUTER GRAPHICS

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit.

(4-01/7) M-E-212

P.T.O.

Unit I

1. What are different applications of computer graphics ? Explain in detail. **15**
2. Explain the following : **15**
 - (i) LCD
 - (iii) Plasma Panel Display Devices

Unit II

3. Explain circle drawing Bresenham's algorithm. **15**
4. Explain ellipse generating algorithms. **15**

Unit III

5. Explain Sutherland-Hodegeman polygon clipping algorithms. **15**
6. Explain composition of 2D transformation matrix for rotation, reflection, translation and scaling. **15**

Unit IV

7. Explain composition of 3D transformation matrix for rotation, reflection, translation and overall scaling. **15**
8. Explain Quadtree and Octree data structure. **15**