

AR – 653

Fifth Semester B. C. A. (Part – III) Examination

COMPUTER GRAPHICS

Paper – 5 ST 4

P. Pages : 3

Time : Three Hours]

[Max. Marks : 60

1. (a) Explain various characteristics of Computer Graphics. 6
- (b) What is Computer Graphics ? Explain history of Computer Graphics. 6

OR

2. (a) Explain application of Computer Graphics. 6
- (b) Explain components of Computer Graphics. 6
3. (a) Explain homogeneous co-ordinate System. 6
- (b) Explain Cathode Ray Tube (CRT) with suitable diagram. 6

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OR

4. (a) Explain Window – to – View Port transformation. 6
- (b) Explain —
 - (i) Random Scan Display.
 - (ii) Raster Scan Display. 6
5. (a) State and explain the line drawing algorithm. 6
- (b) Differentiate between B–Spline and Bazier curve. 6

OR

6. (a) What is Clipping ? Explain Sudderland–Cohen–line–clipping algorithm. 6
- (b) Differentiate between Parallel Projection and Perspective Projection. 6
7. (a) Explain How Computer Graphics work with Animation. 6
- (b) Explain various application of Animation. 6

OR

8. (a) What is Animation ? Explain the types of Animations. 6
- (b) Explain Hardware and Software tools for Animation. 6
9. (a) Write a Program in Graphics to draw ellipse. 6
- (b) Explain various types of transformation in detail. 6

OR

10. (a) State and explain algorithm for scaling transformation. 6
- (b) Write a Program in 'C' for drawing arc. 6

