

AP - 561

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

COMPUTER GRAPHICS

Paper - 5 ST 4

P. Pages : 3

Time : Three Hours]

[Max. Marks : 60

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- Note :** (1) All questions are compulsory.
(2) All questions carry equal marks.
(3) Assume suitable data wherever necessary.

1. (a) Explain various characteristics of computers graphics. 6
- (b) Explain technologies related to computer graphics. 6

OR

2. (a) What is computer graphics ? Explain history of computer graphics. 6
 - (b) Explain advantages and disadvantages of computer graphics. 6
3. (a) Explain window to viewport transformation. 6

- (b) Explain scaling two dimension transformation. 6

OR

4. (a) What is co-ordinate system ? Explain homogeneous, co-ordinate system. 6
(b) Explain in short for following :—
(1) Cathode Ray Tube.
(2) Raster Scan. 6
5. (a) What is clipping ? Explain with clipping algorithm. 6
(b) Write and explain line drawing algorithm. 6

OR

6. (a) Explain the following :—
(1) B-spline curve.
(2) Bezier curve. 6
(b) Write and explain mid-point sub division algorithm. 6

7. (a) Explain any six application of animation. 6
(b) Explain following in short :—
(a) Tweening.
(b) Morphing. 6

OR

8. (a) Compare hardware and software tools for animatin. 6
(b) What is Animation ? Explain with its types. 6
9. (a) Write a program in 'C' for drawing arc. 6
(b) Explain 2 D and 3 D transformation using 'C' Programming. 6

OR

10. (a) Write a aprogram in C language for scaling transformation. 6
(b) Explain any two graphics header file used in C programming with their advantages for C.programming. 6

