

B.C.A. Part—III Semester—V Examination
COMPUTER GRAPHICS
Paper—5ST4

Time : Three Hours]

[Maximum Marks : 60

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

1. (a) Explain advantages and disadvantages of computer graphics. 6
- (b) Explain Technologies related to computer graphics. 6

OR

2. (a) Explain major components used in computer graphics. 6
- (b) Write any six differences between Computer Graphics and Animation. 6
3. (a) Explain two dimension transformation in detail. 6
- (b) Explain Cathode Ray Tube. 6

OR

4. (a) Explain window-to-viewport transformation. 6
- (b) Explain Raster Scanning in detail. 6
5. (a) Write and explain circle drawing algorithm. 6
- (b) Explain parallel projection in detail. 6

OR

6. (a) Explain B-spline curves, shadowing in detail. 6
- (b) Write and explain Midpoint sub-division algorithm. 6
7. (a) Explain Animation with their types in detail. 6
- (b) Explain Hardware Animation tool and Software Animation tool. 6

OR

8. (a) Explain any six applications of Animation. 6
- (b) What is Morphing ? Explain its application. 6
9. (a) Write a program in graphics for drawing ellipse. 6
- (b) Compare 2-D & 3-D transformation. 6

OR

10. (a) Write a program in C for drawing rectangle and arc. 6
- (b) What is Transformation ? Explain with its types. 6

