

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.

1. (A) What is Computer Graphics ? State and explain its characteristics. 6
(B) State and explain various technologies used in Computer Graphics. 6

OR

2. (A) State and explain the applications of computer graphics. 6
(B) What are the components of Computer Graphics ? Explain. 6

3. (A) What is Homogenous Coordinate System ? Explain. 6
(B) What is Rotational Transformation ? Explain. 6

OR

4. (A) What is Raster Scanning ? Explain. 6
(B) What is two dimensional transformation ? Explain. 6

5. (A) What are B-spline curves ? Explain. 6
(B) State and explain line clipping algorithm. 6

OR

6. (A) What is shadowing ? Explain. 6
(B) State and explain the algorithm for drawing circle. 6

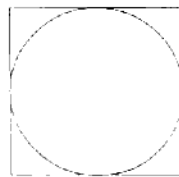
7. (A) What is animation ? Explain steps used for creating animation. 6
(B) What is Morphing ? Explain. 6

OR

8. (A) State and explain different software tools used for animation. 6
(B) What are the applications of animation ? Explain. 6

9. (A) Explain : 4
(i) Line ()
(ii) Circle ()
(iii) Putpixel ()
(iv) Setcolor ().

- (B) Write a program in C using graphics to draw following :



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OR

10. (A) Explain : 3
(i) initgraph ()
(ii) closegraph ()
(iii) getpixel ()
(B) Write a program in C using graphics to draw following object. 9

