



AP-2010100

Seat No. _____

B. C. A. (Sem. IV) Examination

March / April – 2016

Graphics Using ‘C’

Time : 3 Hours]

[Total Marks : 100]

1 Attempt any four :

20

- (a) Discuss Int86 () with interrupt 33H and its Services.
- (b) Write a UDF for to initialize, show and hide mouse pointer.
- (c) Write a Program to Draw Bar Chart.
- (d) Write a Program for Rectangle drawing using mouse.
- (e) Explain the setlinestyle, settextjustify and settextstyle functions.

2 Attempt any four :

20

- (a) Explain the 2D Co-ordinate system.
- (b) What is Computer Graphics? Explain the Application of Graphics.
- (c) Explain the Brasenham ellipse drawing algorithm.
- (d) Give the difference between Text mode and Graphics mode.
- (e) Explain Brasenham line drawing algorithm.

3 Explain the following Functions :: (any ten)

20

(1) closegraph	(2) lineto
(3) imagesize	(4) setviewport
(5) initgraph	(6) getpixel
(7) sector	(8) bar
(9) moverel	(10) pieslice
(11) getimage	(12) drawpoly

4 Attempt any four : 20

- (a) Write a Algorithm steps and Program for Circular arc drawing.
- (b) Write a Algorithm steps and Program for DDA line drawing.
- (c) What is Transformation? Explain the Translation Transformation.
- (d) Explain the Reflection and Scaling Transformation.
- (e) Explain the Homogeneous Co-ordinate system.

5 Attempt any four : **20**

- (a) What is the Boundaryfill procedure? And write a program for Boundaryfill procedure.
- (b) Explain the features and types of Charts.
- (c) Explain the Cohen-Sutherland line Clipping Algorithm.
- (d) Discuss the Geometric Construction of self-similar fractals.
- (e) Discuss the Topological Dimension and Fractal Dimension.