



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

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|----------------|-----------------|
| (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**

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

5 Attempt any **four** : **20**

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