



**AAP-003-003401** Seat No. \_\_\_\_\_

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

**April / May - 2016**

**CS - 19 : Computer Graphics Using C  
(Old Course)**

**Faculty Code : 003**

**Subject Code : 003401**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : **70**

**1** Attempt the following MCQs : **20**

1. detectgraph( ) detects system's \_\_\_\_\_ and choose the mode.  
(A) graphic adapter (B) graphic color  
(C) graphic value (D) graphic ratio
2. \_\_\_\_\_ deallocated all memory allocated by the graphics system.  
(A) cleargraph( ) (B) closegraph( )  
(C) clearcache( ) (D) releasecache( )
3. \_\_\_\_\_ draws a polygon with numpoints points, using current line and style.  
(A) poly( ) (B) fillpoly( )  
(C) drawpoly( ) (D) createpoly( )
4. DDA stands for \_\_\_\_\_.  
(A) Data Driver Analysis  
(B) Digital Data Algorithm  
(C) Digital Data Adapter  
(D) Digital Differential Analyzer
5. The main drawback of DDA is \_\_\_\_\_.  
(A) stair case effect (B) no line detection  
(C) poor accuracy (D) None

6. The midpoint algorithm can be adapted to generate ellipse in \_\_\_\_\_ position.  
(A) nonstandard      (B) standard  
(C) dynamic      (D) static

7. \_\_\_\_\_ is concept of increasing and decreasing the size of picture.  
(A) Stretching      (B) Scaling  
(C) Flexibility      (D) None

8. \_\_\_\_\_ is the circular movement of an object around center.  
(A) Stretching      (B) Circulation  
(C) Rotation      (D) Scaling

9. Homogeneous co-ordinate system introduced by \_\_\_\_\_.  
(A) Dennis Ritchie  
(B) Ken Thompson  
(C) Alan Turing  
(D) August Ferdinand Mobius

10. A \_\_\_\_\_ is rectangular region in Computer Graphics.  
(A) Window Port      (B) View Port  
(C) Rect Port      (D) Line Port

11. \_\_\_\_\_ header file contains graphics library function.  
(A) graphics.h      (B) addgraphics.h  
(C) graphical.h      (D) graph.h

12. \_\_\_\_\_ arguments required in putpixel function.  
(A) 1      (B) 3  
(C) 5      (D) 7

13. A \_\_\_\_\_ is a graphical representation of data.  
(A) logo      (B) icon  
(C) chart      (D) image

14. In Line chart the line is often drawn \_\_\_\_\_.  
(A) generally      (B) occasionally  
(C) periodically      (D) chronologically

15. The \_\_\_\_\_ charts are used for plotting discrete data.  
(A) Pie      (B) Line  
(C) Bar      (D) Histogram

2 (A) Explain following functions in brief : (any three) 6

(1) outtext (2) outtextxy (3) moverel  
(4) cleardevice (5) getmaxxy (6) bar.

(B) Attempt the following : (any three) 9

(1) Explain graphresult, graphdefaults and grapherrmsg function.  
(2) Explain Scaling Transformation.  
(3) Explain initgraph( ).  
(4) Explain homogenous coordinates.  
(5) Explain DDA line drawing with example.  
(6) Explain B-Spline.

(C) Attempt the following : (any two) 10

(1) What is Chart? Explain types of Chart.  
(2) What is filling? Explain Floodfill with example.

