



DI-003-003401

Seat No. _____

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

April / May – 2015

CS-19 : Computer Graphics Using C

(Old Course)

Faculty Code : 003

Subject Code : 003401

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

[Total Marks : 70

Instruction : MCQ Answer should be written in given answer sheet.

1 Multiple Choice Questions : 20

(1) Which of the following is a cubic curve drawing?

- (a) Bezier (b) B-Spline
(c) Both (d) None

(2) DPI stands for _____.

- (a) dots per image (b) data per inch
(c) dots per inch (d) data per image

(3) Which of the following is not a line style?

- (a) SOLID_LINE (b) DOTTED_LINE
(c) DASHED_LINE (d) CURVE_LINE

(4) ellipse() function require _____ parameters.

- (a) 3 (b) 4
(c) 5 (d) 6

(5) In which transformation process size of an object is changed?

- (a) Translation (b) Scaling
(c) Rotation (d) None of these

(6) The interrupt call is made using _____.

- (a) interrupt() (b) int86()
(c) int56() (d) int()

- (7) bar3d() function requires _____ parameters.
- (a) 6 (b) 5
(c) 4 (d) 3
- (8) floodfill() function requires _____ parameters.
- (a) 3 (b) 4
(c) 5 (d) 6
- (9) CRT Stands for _____.
- (a) Cathode Ray Test
(b) Computer Ray Test
(c) Computer Ray Tube
(d) Cathode Ray Tube
- (10) VGA Stands for _____.
- (a) Vertical Graphics Adapter
(b) Video Gray Adapter
(c) Video Graphics Adapter
(d) Vertical Gray Adapter
- (11) To hide mouse pointer has interrupt 33H with service number _____.
- (a) 1 (b) 2
(c) 3 (d) 4
- (12) To set mouse pointer position has interrupt 33H with service number _____.
- (a) 4 (b) 3
(c) 2 (d) 1
- (13) _____ Fractals have parts that are formed with different scaling parameters in different coordinate directions.
- (a) Self-affine (b) Self-Similar
(c) Self-Square (d) Self-Inverse
- (14) Generating fractal objects by repeatedly applying a transformation is called _____.
- (a) Self-affine (b) Self-Similar
(c) Self-Square (d) Self-Inverse

- (15) A transformation that slants the shape of an object is called _____.
- (a) Rotation (b) Translation
(c) Scaling (d) Shearing
- (16) Which of the following is a basic transformation?
- (a) Translation (b) Rotation
(c) Scaling (d) All
- (17) _____ return current background color.
- (a) getcolor() (b) getbkcolor()
(c) getbackground() (d) getbackcolor()
- (18) Homogeneous coordinates are representing by _____ values.
- (a) 1 (b) 2
(c) 3 (d) 4
- (19) Circle is _____ way symmetry.
- (a) 2 (b) 4
(c) 6 (d) 8
- (20) Which of the following is a function of graphics.h file?
- (a) lineto() (b) moveto()
(c) sector() (d) All

- 2** (a) Answers the following : (any **three**) **6**
- (1) closegraph()
(2) graphresult()
(3) putimage()
(4) sector()
(5) moveto()
(6) liner()
- (b) Answers the following : (any **three**) **9**
- (1) Explain initgraph().
(2) Explain B-Spline.
(3) Text mode Vs. Graphics mode
(4) Write down the properties of Bezier curve.
(5) Define : pixel, resolution
(6) Write an application of computer graphics.

- (c) Answers the following : (any two) 10
- (1) Explain Bezier curve.
 - (2) Explain Fractals.
 - (3) Explain Brasenham circle drawing algorithm.
 - (4) What is chart? Explain different types of chart.
 - (5) Explain Sutherland Cohen line clipping algorithm.
- 3 (a) Answers the following : (Any Three) 6
- (1) closegraph() Vs. restorecrtmode()
 - (2) outtext() Vs. outtextxy()
 - (3) Write advantages of DDA algorithm.
 - (4) Explain arc().
 - (5) Explain pieslice().
 - (6) Explain detectgraph().
- (b) Answers the following : (Any Three) 9
- (1) Explain Homogeneous Co-ordinate system.
 - (2) Explain Floodfill procedure.
 - (3) Explain Translation.
 - (4) Explain Scaling.
 - (5) Explain Rotation
 - (6) Explain Reflection.
- (c) Write a Program Code : (Any Two) 10
- (1) Write a program to show and hide mouse pointer.
 - (2) Write a program to draw rectangle using mouse.
 - (3) Write a program to draw self similar fractals.
 - (4) Explain different classification of fractals.
 - (5) Write a program to draw line chart.
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