

MAX-003-003401 Seat No. _____

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

March / April - 2018

CS - 19 : Graphics using C (Old Course)

Faculty Code: 003 Subject Code: 003401

Time	e : 2	$\frac{1}{2}$ Hours]	[Total Marks:	70
1	Writ	te answer in one or two statements :		20
	(1)	The Cartesian slope-intercept equation line is	for a straight	
	(2)	VGA stands for		
	(3)	The transformation that is used to alter object is	the size of an	
	(4)	approach is used to construct	Bezier curve.	
	(5)	In 2D-translation, a point (x, y) can mo position (x', y') by using the equation		
	(6)	is a rigid body transformation objects without deformation.	on that moves	
	(7)	The original coordinates of the point in polare	lor coordinates	
	(8)	The two-dimensional rotation equation form is	in the matrix	
	(9)	If $(x1, y1)$ is greater that $(x2, y2)$, line right to left. (true/false)	is drawn from	
	(10)	Define Self Square Fractal.		
	(11)	fractals have parts that are version of the entire object.	e scaled down	
	(12)	Which function is used to switch from graphics mode?	text mode to	

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[Contd....

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	(13)	Ellipse function requires parameters.				
	(14)	Which command draw a line at a relative distance from current position?				
	(15)	Interrupt 33H with service number is used to show mouse pointer.				
	(16)	Syntax for initgraph() is				
	(17)	Give the name of stack based seed filling algorithms.				
	(18)	arc() function has parameters.				
	(19)	is used in Sutherland Cohen line clipping algorithm.				
	(20)	A circle, if scaled only in one direction becomes a				
2	(A)	Attempt any three:	6			
		(1) Explain Resolution.				
		(2) Define Pixel.				
		(3) What is Clipping?				
		(4) detectgraph()				
		(5) getpixel()				
		(6) outtextxy()				
	(B)	Attempt any three:	9			
		(1) Explain Homogenous Coordinate.				
		(2) Write Advantages and Disadvantages of DDA line drawing.				
		(3) Text mode vs. Graphics mode.				
		(4) Write algorithm for Brasenham circle drawing.				
		(5) Write program for DDA line drawing.				
		(6) Write a program to draw circle using mouse.				

	(C)	Attempt any two :		10
		(1)	What is Chart? Explain types of Chart.	
		(2)	Write steps for Cohen Sutherland line Clipping Algorithm.	
		(3)	What is filling? Explain floodfill procedure with example.	
		(4)	Write a note on Transformation.	
		(5)	Write a program for drawing pie chart.	
3	(A)	Atte	mpt any three :	6
		(1)	Explain Translation.	
		(2)	Explain properties of Bezier curve.	
		(3)	What is Scaling?	
		(4)	putimage()	
		(5)	textwidth()	
		(6)	imagesize()	
	(B)	Atte	mpt any three :	9
		(1)	Explain B-spline Curve.	
		(2)	Explain Boundryfill Procedure.	
		(3)	Write a program to draw self-similar fractals.	
		(4)	Explain rotation and shearing.	
		(5)	Explain Windowport and Viewport.	
		(6)	Explain Fractal Dimension.	
	(C)	Atte	mpt any two :	10
		(1)	Explain Sutherland Cohen line clipping algorithm.	
		(2)	Explain Bezier curve with example.	
		(3)	Write a program to perform composite transformation using matrix.	
		(4)	Write a program for Boundary-fill procedure.	
		(5)	Explain int86() function in detail.	