

SA-1898]

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Third Year B. C. A. (Sem. VI) Examination March/April - 2011

601: Computer Graphics

Tim	e : 3	Hours] [Total Marks :	70
Inst (1)	ructi	ons:	
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(2)	Mar	ks are indicated to the right side of Question.	
1	Ans	wer following:	14
	(a)	What is Scaling?	
	(b)	What is pixel and frame Buffer?	
	(c)	Name any three file types of Raster Image and Vector Image.	
	(d)	How a point in second quarter can be represented as Cordinte ?	
	(e)	What is transformation ?	
	(f)	What is aspect ratio?	
	(g)	What is Random Scan display?	
2	(a)	Explain flood fill and scan line algorithms.	7
		\mathbf{OR}	
	(a)	Discuss Polygon inside test method.	7
	(b)	Discuss line geometry and line generation algorithms. OR	4
	(b)	Discuss geometry of line generation.	4
	(c)	Explain various Computer graphics applications.	3

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3	(a)	Discuss DOA algorithm for line generation.	7
		OR	
	(a)	Explain Bresenham algorithm.	7
	(b)	Discuss the process of Rotating line about origin.	4
		OR	
	(b)	Explain the Concept of fractals. Discuss the features of fractals.	4
	(c)	Discuss color CRT.	3
4	(0)	II Throughour stier matrix are scalled and	7
4	(a)	How Transformation matrix are scalled and transformed?	1
		OR	
	(a)	Describe concept of Animation and types of	7
		computer Animation.	
	(b)	Explain various line styles.	4
		\mathbf{OR}	
	(b)	Discuss VEGGEN algorithm.	4
	(c)	What is Refresh CRT?	3
5	Wri	Write note on following: (any two)	
	(a)	Entertainment Application in computer graphics	
	(b)	Rotation of object about origin.	
	(c)	Polygon Filling Algorithm.	
	(d)	Scaling and Translation of object.	