

## V Semester B.A./B.Sc. Examination, November/December 2015 (Fresh) (2015-16 Only) (Semester Scheme) COMPUTER SCIENCE – V Computer Graphics

Time: 3 Hours

Max. Marks: 70

Instruction: Answer all Parts.

## PART-A

Answer any ten questions. Each question carries two marks : SCL (2x

(2×10=20)

- 1. What is colour lookup table?
- 2. How raster scan display works?
- 3. What are CRT colour monitors?
- 4. Write simple DDA circle drawing algorithm.
- 5. What are the different attributes of a text?
- 6. What is meant by Anti-Alialising?
- 7. What is Reflection?
- 8. Define exterior clipping.
- 9. Explain 3D stereoscopic views.
- 10. What is Parallel projection?
- 11. Explain the two different types of printers.
- 12. What are the several techniques of text clipping?



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A	nsw	er all the questions: (10x	5=50)
- 13	3. a	Explain the applications of Computer Graphics.	5
	b)	How interactive graphic display works ?	5
		OR	
		Explain flat panel displays.	5
	b)	Explain direct view storage tubes.	5
14	l. a)	What are the properties of a line?	3
	b)	Write Bresenham's line drawing algorithm an Shustrate it for a line with endpoints (10,10) and (20, 18).	7
	121	OR	
		Write an algorithm for midpoint circle drawing.	7
	D)	What are bundled attributes?	3
15		Explain composite transformations of 2D.	2
		2 Dimensional translation of an image by 10 units right and 10 units up.	4
	c)	OR	4
	a)	Explain shortcomes of polygon clipping and explain the algorithm of Sutherland and Hodgman polygon clipping.	3+7)
16.	a)	Explain about 2 Dimensional window-to-viewpoint mappings.	7
		Explain midpoint subdivision algorithm for line clipping.	3 (
		OR gruphy to he five a district to the second section of the secti	5
	a)	Explain three dimensional transformations with suitable illustrations.	10
17.	a)	Explain about Geometric data table representation with suitable example of a polygon.	7
	b)	Explain Bezier curves.	3
		OR	-
		Explain scan-line algorithm for multiple hidden surfaces.	7
	b)	Define depth cueing.	3 (