Total Pages : 2

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COMPUTER GRAPHICS Paper – MS(A)-221 IInd Year (Annual)

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *two* questions each from Section A and B. Section C will be compulsory.

SECTION - A

- I. Explain the following in detail :
 - (a) Keyboard.
 - (b) Mouse.
 - (c) Printers.
 - (d) CRT monitors. (4×4=16)
- II. Compare Raster Scan Dispaly System and Random Scan Display System. 16
- III. Explain Bresenham and Mid point circle drawing algorithms. 16

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IV. What is the viewing transformation? Discuss Cohen-Sutherland algorithm for line clipping in detail. 16

SECTION – B

V.	Exp	plain 3D Clipping in detail.	16
VI.	Exp	plain the Diffuse reflection.	16
VII.	Explain any <i>two</i> hidden line and surface eliminatio algorithms.		
VIII. Explain Phong Shading in detail. 16			16
SECTION – C			
IX.	. Define the following in brief :		
	(a)	Limitation of Z buffer algorithm.	
	(b)	3D Scaling Geometric Transformation.	
	(c)	Viewing transformation.	
	(d)	Flat panel display.	
	(e)	Shearing.	
	(f)	Transformation matrix for 2D rotation.	

- (g) Aspect ratio.
- (h) Image scanner. $(2 \times 8 = 16)$

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