(2)

Section-B

(Short Agswer Questions)

2×7½-15

Note: Attempt any two questions.

A		Printed Pages: 3	
(20	0623)	Roll No.	
BC	'A-IV Sem.		
	180	16)
,	B.C.A. Examina COMPUTER GRAPHIC APPLIC	S AND MULTIMEDIA	
	(BCA	-401]	
Time-: 3 Hours] [Maximum M		Maximum Marks: 75	
Not	te: Attempt questions	from all Sections as per	
	instructions.		
	Section	n-A	
	(Very Short Ans	ver Questions)	
Not		questions. Each question short answer is required not	
1.	Define convex and cond	ave polygon. 3	
2.	List any four areas of applications of computer		
	graphics.	3	
3.	State the concept of van	ishing point. 3	
4.	Define refresh/frame b	uffer. 3	
5.	What are the video disp	lay devices? 3	

6. Digitize a line from (10,12) to (15, 15) on a raster screen using Bresenhams straight line Algorithm. What are the various line drawing algorithms? 71/2 Calculate the pixel location approximating the first 7. octant of a circle having centre at (4, 5) and radius 4 71/2 units using Bresenham's algorithm. Explain the following composite tranformations 8. (i) Translation (ii) Rotation. 71/2 Section-C (Detailed Answer Questions) Note: Attempt any three questions. $3 \times 15 = 45$ 9. What is multimedia? Explain the objects involved in Multimedia system and describe various applications. 15 10. Explain the following: 15 Cubic curves Quadric surface (b) Computer Animation (c) 18016

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- 11. Find a transformation of triangle A (1, 0), B (0, 1), C (1, 1) by.
 - (a) Rotating 45° about the origin and then translating one unit in X and Y direction.
 - (b) Translating one unit in X and Y direction and then rotating 45° about the origin.
 15
- 12. What is transformation? What are the steps involved in 3D transformation. Explain with examples.

15

13. Write about Cohen-Sutherland line clipping algorithm with an example. 15