о ра	ges)	ACE, 110. I recommendation			uter graphics.	type	s of translation
Coc	le No. : 10334 E	Sub. Code : AMCS 63		(a)	Five	(b)	Three
				(c)	Four	(d)	Two
B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2023 Sixth Semester			4.	Bitmap is a collection of ——————————————————————————————————			
				(a)	Pixels	(b)	Algorithms
	Computer	Science — Core		(c)	Bits	(d)	Colors
C	OMPUTER GRAPH	ICS AND VISUALIZATION	5.				-i output device
	(For those who jo	ined in July 2020 only)	0.		ch of the followin graphics system?	gısap	orimary output device
Time: Three hours Maximum: 75 marks				(a)	Printer	(b)	Mouse
	PART A — ($10 \times 1 = 10 \text{ marks})$		(c)	Video Monitor	(d)	Keyboard
	Answer ALL questions. Choose the correct answer:			Which of the following is defined as the process of elimination of parts of a scene outside a window or a viewpoint.			
1.	Each screen point i	s referred to as a ————			-	4.	Data
	(a) Pivot	(b) Pixel		(a)	Clinning	(p)	Rotating
	(c) Dot	(d) Indent		(c)	Clipping	(d)	Editing
2.	Color CRTs in gra	phics systems are designed as s.	7.	the	——— is the pro size of objects.	cess of	changing or modifying
	(a) RGB	(ь) СМҮК		(a)	Scaling	(b)	Shearing
	(c) HLS	(d) None		(c)	Rotation	(d)	Translation
8.	The fastest method	for calculating pixel position is	12.	(a)	Discuss the diff	ferent te	ext attributes.
					Water	Or	
	(a) DDA Line alg			(b)	Explain ma		representation and
	(b) Mid-point Alg(c) Parallel Line			5.7	homogenous	coordin	
	(d) None	Algorithm			representation.		
9.	* *	algorithm divides the region	13.	(a)	Describe the diagram.	viewing	g pipeline with neat
	(a) 9	(b) 8				Or	
	(c) 7	(d) 6		(b)			transform window-to-
10.	The higher number of pixels gives a ———————————————————————————————————		14.	(a)	viewpoint coord		nte-Axes rotation with
	(a) Better	(b) Worst		(4)	example.	oorania	tte-Axes rotation with
	(c) Smaller	(d) None				Or	
	PART B — $(5 \times 5 = 25 \text{ marks})$			(b) How reflections and sheers are useful in			
	Answer ALL question	ns, choosing either (a) or (b).		1	three-dimensi		graphical application
	Each answer sho				Explain.		
11.		ıld not exceed 250 words.					
		ald not exceed 250 words. panel displays with neat	15.	(a)	Explain Dept visible surface		er method to defect
	diagrams.	-	15.	(a)			er method to defect

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[P.T.O.]

Explain DDA line drawing algorithm.

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PART C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain the classifications for graphics software.

Or

- (b) Describe input devices for graphical applications in detail.
- 17. (a) Explain the basic two dimensional geometric transformations in detail.

Or

- (b) Explain line attributes of output primitives.
- (a) Describe Cohen-Sutherland Line Clipping algorithm in detail.

Or

- (b) Explain Clipping operations in detail.
- 19. (a) Discuss the logical classification of input devices.

Or

(b) Explain three dimensional display methods in detail.

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20. (a) Describe projection in detail.

Or

(b) Explain HSV color model in detail.

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