

C09-IT-606 A

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BOARD DIPLOMA EXAMINATION, (C-09) OCT/NOV-2014

DIT—SIXTH SEMESTER EXAMINATION

COMPUTER GRAPHICS

Time: 3 hours]

PART—A

 $3 \times 10 = 30$

Total Marks: 80

Instructions: (1) Answer **all** questions.

- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.
- 1. Explain display devices.
- 2. Explain simple DDA.
- **3.** Explain the transformation routines.
- **4.** Explain briefly about shear transformation.
- **5.** Define segment.
- **6.** Explain how to delete a segment.
- 7. Explain briefly about clipping of polygon.

8.	Explain about viewing transformations.	
9.	Explain about parallel projection.	
10.	Explain rotation about an arbitrary axis.	
	PART—B 10×5=5	50
Inst	ructions: (1) Answer any five questions.	
	(2) Each question carries ten marks.	
	(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.	
11.	Explain polygon interfacing algorithm.	
12.	Explain Bresenham's algorithm.	
13.	(a) Explain about inverse transformations.	5
	(b) Explain about scaling transformations on sin and cos.	5
14.	Explain about other display file structures.	
15.	Explain Cohen-Sutherland outcode algorithm.	
16.	Explain Sutherland-Hodgman algorithm.	
17.	Explain the hardware devices used in the interaction.	
18.	(a) Explain about 3D geometry.	5
	(b) Explain about 3D primitives.	5
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