Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

D	IPLO	MA ENGINEERING – SEMESTER –VI • EXAMINATION – SUMMER	R 2013
Sı	ıbject	t Code: 360705 Date: 11/05	5/2013
Sı	ıbject	Name: Computer Graphics & Multimedia	
Ti	ime: 1	10:30 AM TO 01:00 PM Total Mar	:ks: 70
In	structio		
		ttempt any five questions.	
		lake suitable assumptions wherever necessary.	
		igures to the right indicate full marks. ach question carry equal marks (14 marks)	
Q.1	(a) (b)	What is Computer Graphics? Explain applications of computer graphics. Define the following terms: (1) Resolution (2) Pixel (3) Window (4) Viewport (5) Reflection (6) Shearing (7) Composite Transformation	07 07
Q.2	(a) (b)	Write and Explain DDA line drawing algorithm. Explain 2D viewing transformation pipeline. OR	07 07
	(b)	Explain Boundary fill algorithm.	07
Q.3	(a)	Explain parallel and perspective projection.	07

Explain parallel line drawing algorithm.

Explain Mid-point circle algorithm.

Explain various storage media.

Explain animation languages.

Explain data characteristics.

Explain 2D rotation with example.

Explain MPEG standard.

Explain Bresenham's line drawing algorithm.

Explain Cohen Sutherland line clipping algorithm.

Explain Sutherland Hodgeman polygon clipping algorithm.

(b)

(a)

(b)

(a)

(b)

(a)

(b)

(a)

(b)

(a)

(b)

Q.3

Q.4

Q. 4

Q.5

Q.5

What is Data compression? Explain Run Length Data compression Method.

OR

OR

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