Seat No.:	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGINEERING – SEMESTER –VI • EXAMINATION – WINTER 2015

U			ate: 10/12/2015	
Ti	me: () struction 1. A 2. M 3. Fi		arks: 70	
Q.1	(a) (b)	What is Computer Graphics? Explain applications of Computer Graphics Explain Multimedia, Hypertext and Hypermedia.	s. 07	
Q.2	(a) (b)	Explain DDA line drawing algorithm with advantages and disadvantages Explain Boundary Fill algorithm. OR	07 07	
	(b)	Explain parallel line algorithm.	07	
Q.3	(a) (b)	Explain basic 2D transformation in detail. 1) Translate the square ABCD whose coordinates are A(0,0), B(3,0), C(3,3) and D(0,3) by 2 units in X-direction and 2 units in Y-direction. 2) Prove two successive translations are additive. OR		
Q.3	(a) (b)	Explain Midpoint circle algorithm. Explain Cohen-Sutherland line clipping algorithm.	07 07	
Q.4	(a) (b)	Define the following terms: 1) Composite transformation 2) Clipping 3) Window Explain storage, representation and transmission medium. OR	07	
Q. 4	(a) (b)	Explain Scanline polygon Fill algorithm. Explain sound? Explain MIDI format.	07 07	
Q.5	(a) (b)	What is animation? Explain computer Based animation. Explain MPEG standard. OR	07 07	
Q.5	(a) (b)	What is Data compression? Explain Run length coding method. Explain storage requirements for Audio/Video.	07 07	
