Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

## PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY M.Tech. Winter 2019 - 20 Examination

	Witten, Whiter 2017 - 20 Examination		
	nester: 1 Date: 16/12/2019		
		Time: 10:30am to 1:00pm	
Subject Name: Computer Graphics & Application in DesignTotal Marks: 60Instructions:			
	Il questions are compulsory.		
2. Figures to the right indicate full marks.			
	Iake suitable assumptions wherever necessary.		
	tart new question on new page.		
Q.1	A) Explain Product Cycle CAD-CAM with neat sketch.	(05)	
	B) What is graphic standard? Explain different CAD Standard.	(05)	
	C) Explain Random scan display with neat sketch.	(05)	
0.2	<b>Q.2</b> Answer the following questions. (Attempt any three) (Each five mark)		
Q.2	A) Explain 2D geometric transformations with neat sketch.	(15)	
	<ul><li>B) Explain Direct view storage tube (DVST) with neat sketch.</li></ul>		
	C) Explain Reverse Engineering concept with industrial application.		
	<ul><li>D) Generate a straight line connecting two points (1, 2) and (8, 6) using DDA Algorithm.</li></ul>		
Q.3	A) Explain Bresenham's algorithm for generation of line with flow chart.	(07)	
	B) Explain wire frame modeling and surface modeling with neat sketch	(08)	
	OR		
	B) A rectangle is formed by four points whose coordinates are A (50, 50), B (100, 50), C (100, 80),		
	and D (50, 80). Determine the coordinates of four points new rectangle in reduced size using the scaling factors 0.5 and 0.6 along X and Y- directions respectively.	(08)	
	scaling factors 0.5 and 0.6 along X and 1- directions respectively.		
0.4	A) Write 3D transformation for Translation, Rotation, Scaling and Reflection with neat sketch.	(07)	
<b>x</b>	OR	(0.1)	
	A) Explain feature based parametric modeling with neat sketch.	(07)	
	B) Explain Geometric dimensioning and tolerance with example.	(08)	