Seat No.:	Enrolment No.
Deat 110	Lindincht 110.

GUJARAT TECHNOLOGICAL UNIVERSITY

Subject Code: 3331602

Time:2:30 pm to 5:00 pm

Subject Name: COMPUTER GRAPHICS

DIPLOMA ENGINEERING - SEMESTER - III • EXAMINATION - SUMMER 2015

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	1. 2.	Attempt all questions. Make Suitable assumptions wherever necessary.				
	3.	Take Suitable assumptions wherever necessary. Sigures to the right indicate full marks. Jes of programmable & Communication aids are strictly prohibited.				
	4.					
	5.	Jse of only simple calculator is permitted in Mathematics.				
	6.	English version is authentic.				
Q.1		Answer any seven out of ten. દશમાંથી ક્રોઇપણ સાતના જવાબ આપો.	14			
	1.	List the different application of Computer Graphics.				
	٩.	Computer Graphics ના એપ્લિકેશન ની યાદી આપો.				
	2.	Define: Resolution.				
	₹.	Resolution વ્યાખ્યા આપો.				
	3.	What is bitmap & pixmap?				
	3.	Bitmap અને Pixmap શું છે?				
	4.	What is View port?				
	٧.	View port શું છે?				
	5.	What is Bar code reader?				
	ч.	Bar code reader शुं छे?				
	6.	What is flat panel display?				
	۶.	Flat panel display શું છે?				
	7.	Write the advantages of DDA.				
	૭.	. DDA ના ફાયદાઓ લખો.				
	8.	Define: Inverse Transformation.				
	८.	Inverse Transformation વ્યાખ્યા આપી.				
	9.	Define: Projection.				
	E.	Projection વ્યાખ્યા આપો.				
	10.	What is Zooming and Jaggies?				
	90	. Zooming અને Jaggies શું છે સમજાવો				
Q.2	(a)	Difference between Raster scan and Random scan system.	03			
પ્રશ્ન. ર	(અ) Raster scan system અને Random scan system વચ્ચે નો તફાવત લખો.	03			
		OR				
	(a)		03			
	(અ		03			
	(b)		03			
	(બ) Computer Graphics ની કોઈ પણ બે એપ્લિકેશનો સમજવો.	03			
		OR				

Date: 06- 05- 2015

Total Marks: 70

	(b)	Explain Shear.		03
	(બ)	Shear સમજવો.		03
	(c)	What is Boundary fill algorithm?		04
	(8)	Boundary fill algorithm શું છે સમજા	વો.	٥x
			OR	
	(c)	Explain any two types of Printer.		04
	(8)	Printer ના બે પ્રકાર સમજાવો.		OA
	(d)	Explain Sutherland Cohen line clippi	ing.	04
	(S)	Sutherland Cohen line clipping સમ	ષ્રવો.	OA
			OR	
	(d)	Describe Orthographic Projection.		04
	(S)	Orthographic Projection વર્ણન કરી.		OX
Q.3	(a)	What is Shadow mask method?		03
પ્રશ્ન. 3	(અ)	Shadow mask method શું છે?		03
			OR	
	(a)	Describe Convex and Concave Polys		03
	(અ)	Convex and Concave Polygons વર્ણ	ન કરો.	03
	(b)	Describe Bresenham line drawing al	lgorithm.	03
	(બ)	Bresenham line drawing algorithm 3	ામજાવો	03
			OR	
	(b)	Explain Parallel Projection.		03
	(બ)	Parallel Projection સમજાવો		03
	(c)	Explain Midpoint circle algorithm.		04
	(§)	Midpoint circle algorithm સમજાવો	OR	OA
	(c)	Describe Perspective Projection.		04
	(8)	Perspective Projection વર્ણન કરો.		٥x
	(d)	What is 3-D Translation?		04
	(S)	3-D Translation શું છે સમજાવો.		٥x
		•	OR	
	(d)	What is Viewing Pipeline?		04
	(S)	Viewing Pipeline शुं छे?		OA
Q.4	(a)	Explain Munsell color classification?	•	03
પ્રશ્ન. ૪	(અ)	Munsell color classification સમજાવે	ો.	03
			OR	
	(a)	Describe in brief Text Clipping.		03
	(અ)	Text Clipping શું છે વર્ણન કરો.		03
	(b)	Explain 2-D Rotation.		04
	(બ)	2-D Rotation સમજાવો		OA
	/ 4 \	F 1: 2 F 2 "	OR	-
	(b)	Explain 3-D Scaling.		04
	(W)	3-D Scaling સમજાવો		OX

	(c)	Explain CRT with its terms.	07
	(8)	CRT અને તેની ટમઁ સમજાવો	೦೨
Q.5	(a)	Explain 2-D Translation.	04
પ્રશ્ન. પ	(અ)	2-D Translation શું છે સમજાવો.	08
	(b)	Describe Raster scanning.	04
(બ) (c)	(બ)	Raster scanning શું છે સમજાવો	OX
	(c)	Explain 2-D scaling.	03
	(8)	2-D scaling સમજાવો	03
	(d)	Write note on LED.	03
	(S)	LED વિસ્તાર થી સમજાવો.	03
