Duration: 21/2 hours

Marks: 75

) All questions are Compulsory.		
) Figures to the right indicate maximum marks,		
1.	Attempt <u>any three</u> of the following:	, a (15)
a)	Explain the difference between vector display and raster display	CO1 - (R)	
b)	Explain Cathode Ray tube basics	CO1 - (U)	
c)	Explain Raster scan display	*CO1 - (U)	
d)	Draw a line from A(0,1) to B(5,6) using DDA algorithm	CO1 - (U)	
e)	Explain cohen Sutherland line clipping algorithm	CO1 • (R)	
f)	Explain the working of LCD	CO1 - (R)	
2.	Attempt any three of the following:		(15)
a)	Describe the Techniques for Generating Perspective Views,	CO2 - (R)	
b)	Explain rotation about an arbitrary point	CO2 - (U)	
c)	Explain window to viewport transformation	CO2 - (R)	
d)	Explain perspective transformation	CO2 - (R)	
e)	Explain parallel projection	CO2 - (R)	
f)	Write a short note on Oblique Projections,	CO2 - (R)	
3.	Attempt any three of the following:	æ ::	(15)
٥.		1 1 2 2	(15)
a)	Explain the stages in 3d viewing	CO3 - (R)	
b)	Explain canonical view volume	CO3 - (R)	
c)	Explain the concept of photometry in detail	CO3 - (R)	
d)	Explain Z-buffer algorithm	CO3 - (U)	
e)	Describe Back Face removal algorithm	CO3 - (U)	
f)	Explain Binary space partitioning	CO3 - (R)	
4.	Attempt any three of the following:	y	(15)
a)	Explain explicit and implicit curve representation in detail with example	CO4 - (U)	
b)	Explain Non parametric curves in detail	CO4 - (R)	
c)	Explain the properties of B-Spline curves in detail	CO4 - (Ř)	
d)	Explain the properties of Bezier surfaces	· CO4 - (R)	
e)	Explain the concept of cubic spline in detail	CO4 - (R)	

f)	Explain Parametric Representation of a Hyperbola,	18 1	CO4 - (R)	
5.	Attempt any three of the following:			(15)
a)	List the different types of animation	(#C	CO5 - (R)	
b)	Explain the anticipation animation in detail		CO5 - (R)	
c)	Explain follow through and overlapping action		CO5 - (U)	
d)	Explain the concept of keyframing in detail		CO5 - (R)	
e)	Write a short note on deformation		CO5 - (R)	
f)	Explain Digital Image File format		CO5 - (R)	