Q.P. Code: 27647

	[Duration: Three Hours] [Marks:	80]
1.	Question No. 1 is compulsory.	
2.	Attempt any three questions from remaining five questions.	
3.	Assume suitable data wherever required with proper justification.	
4.	Answers should be supplemented by neat sketches , wherever possible .	
Q.1 E	xplain the following:	(20)
,	Explain B-rep and CSG type solid modeling with example. Application of finite element analysis. Color Model. Parallel Projection.	
Q.2		
a)	Use the Bresenham's algorithm to rasterize the line from (6,6) to (14,10). Also plot the pixel positions.	(10)
b)	Write short note on windowing and clipping. Explain Cohen Sutherland algorithm for line clipping	(10)
Q.3		
a) b)	Calculate the new coordinates if the triangle is reduced in size using the scale factor $Sx=0$ and the base point is A.	0.5,Sy=0.7 (10)
	any one in details.	
Q.4 I	Find out transformation matrix to align vector V=2i+3j+k with vector K	(20)
Q.5		
a) b)		(6,4). (10) (10)

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Q.6 Explain the following:

(20)

- a) Effects of scan conversion.
- b) Shading Model.
- c) Properties of Bezier and B-Spline curve.
- d) Raster scan graphics.
