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Seat		
Seat No.		

T.E. (Computer Science & Engineering) (Semester-V) (Revised) Examination, November - 2017 COMPUTER GRAPHICS (Theory)

COMPUTER GRAPHICS (Theory)					
	ursday, 09-11-2017	Total Marks :	50		
2) 3)	and Q. No. 2 and any one from Q. Figures to the right indicate full m	No. 4 and Q. No. 5. arks.	o. 1		
What is s	scaling? Explain in detail 2D scal	ing transformation.	[6]		
Write an	nd explain Bresenham's line draw	ing algorithm in first octant.	[6]		
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		42	.[7] [6]		
What is	key frame animation? Explain of	lifferent methods of key fra	[6] me [6]		
	Date: The O a.m. to as: 1) 2) 3) What is Write an Explain Explain Write a	Sub. Code: 66293 Date: Thursday, 09-11-2017 Da.m. to 11.30 a.m. Das: 1) Q. No. 3 and Q. No. 6 are compulsed and Q. No. 2 and any one from Q. Digures to the right indicate full means and a second substantial and a second s	Sub. Code: 66293 Date: Thursday, 09-11-2017 Total Marks: 10 a.m. to 11.30 a.m. SET 1) Q. No. 3 and Q. No. 6 are compulsory. Attempt any one from Q. No. 1 and Q. No. 2 and any one from Q. No. 4 and Q. No. 5. 2) Figures to the right indicate full marks. 3) Assume suitable data if necessary. What is scaling? Explain in detail 2D scaling transformation. Write and explain Bresenham's line drawing algorithm in first octant. Explain in detail the rotation of object about the arbitrary axis in space. Explain Run Length Encoding (RLE) scan conversion method. Explain midpoint subdivision algorithm for line clipping with example Write a note on windowing and view porting. Explain parametric representation of cubic spline curve segment. What is key frame animation? Explain different methods of key frame		

P.T.O.

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- Q5) a) Explain diffuse reflection model for calculating surface intensity at a given point. [6]
 - What is halftoning. Explain halftone approximation method for a 3 by 3 pixel grid on a bilevel system.
- Q6) a) Explain Warnock algorithm for hidden surface removal. [7]
 - b) What is warping? Explain feature-based image warping method. [6]

