	Code N	o: S0522	**** **** **** **** **** **** **** **** ****	***		R07	**** *********************************
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, March - 2017 COMPUTER GRAPHICS							
	Time:	3 hours	Answer an	o CSE, IT, ECM) y five questions carry equal mar	2 ** ** × *	Max. Marks: 80	RØ
	1. 	List the operating ch systems, vector refre	aracteristics for sh systems, plasi	the following disma panels; and LC	splay technologi CDs	es: raster refresh	
Write a boundary-fill procedure to fill an 8-connected region.What are graphic primitives? Mention typical graphic primitives that a package provide.							
	3:a)::: b)	Explain matrix repre Obtain the transform	sentations and he ation matrix for	omogeneous coor rotation about an	dinates. arbitrary point.	[8+8]	
4.a) What is meant by window and view point? Explain window to v transformations. Give a brief note on Hodgeman polygon clipping algorithm with suitable in the contraction of the cont							**************************************
	 5.a) Write short notes on spline representation. b) Make a comparison between the Bezier curve and B-Spline curves. [8+8] 						
	6.a) b)	6.a) Discuss the 3D rotation about an axis that is not parallel to the coordinate axis: With the help of neat diagram, explain the parallel projection transformations. [8+8]					
	7.a) Write a program to implement the scan-line algorithm for a scene containing sever polyhedrons. Use polygon and edge tables to store the definition of the object, and u coherence techniques to evaluate points along and between scan lines. Explain two image space methods that are used to deal with visible surface detection. [8+]						ŔØ
8.a) Give a brief note on raster animations and computer animation languages.b) List and explain the General Computer-Animation Functions.						ges. [8+8]	
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