Hall Ticket Number :

R-11/R-13

Code: 1G461

III B.Tech. II Semester Supplementary Examinations December 2017
Computer Graphics
(Information Technology)

Max. Marks: 70   Time: 3 Hours

Answer any **five** questions
All Questions carry equal marks (**14 Marks each**)
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1.	a)	What are the various application areas of Computer Graphics?	7M
	b)	Explain briefly about the CRT device with neat Diagram.	7M
2.	a)	Explain DDA Algorithm for Line drawing.	7M
	b)	Discuss about Boundary-Fill Algorithm.	7M
3.	a)	Explain about Composite Transformations for Translation Scaling & Rotation Scaling.	10M
	b)	Discuss about Transformations between Co-Ordinate Systems.	4M
4.	a)	Explain about Cohen-Sutherland Line Clipping Algorithm.	7M
	b)	Define Polygon Clipping and Explain Sutherland-Hodgeman Polygon Clipping Algorithm.	7M
5.	a)	Explain about Spline curve Representation about parametric and geometric Continuity Condition.	10M
	b)	Write Short notes on Basic illumination Models.	4M
6.	a)	Define and explain the terms translation, rotation in 3-D Geometry.	7M
	b)	Differentiate between Parallel and Perspective Projections.	7M
7.	a)	Explain in detail about BSP Tree for visible Surface detection.	10M
	b)	Explain about octree Method.	4M
8.	a)	Write the sequence of steps for the design of Animation.	7M
	b)	Explain in detail about motion specifications of objects an animation system.	7M

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