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(Following Paper ID and Ruth No. to be filled in your er.		
Paper ID :	Answer Books) Roll No.	
B.TECH.		
Theory Examination (Semester-IV) 2015-16		
COMPUTER GRAPHICS		
Time: 3 H	ours Max. marks: 100	
Note: Attempt questions from all Sections as per directions.		
Section-A		
Attempt all parts of this section. Answer in brief.[2×10=20]		
1. (a)	Explain the role of pixel and frame buffer in graphics devices.	
(b)	What do you understand by the video controller?	
(c)	Justify the composite transformation.	
(d)	What is specular reflection?	
(e)	Write the properties of B-Spline curve.	
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21. i. Attempt any five questions from this section. [10×5=50] (DDA) algorithm with Bresenham's line drawing algorithm.

Write a procedure for rotation. Drive reflection metrics for

reflection about X axis.

Consider two raster systems with resolutions of 640 × 480

Remaid 1280 × 1024. How many pixels could be accessed per escond in each of these systems by a display controller that refreshes the screen at a rate of 60 frames per second?

Write an algorithm for Cohen-Sutherland line clipping algorithm.

Compare it with Liang-Barsky line clipping algorithm.

Section-C

Attempt any two questions from this section.

[15×2=30]

and A-buffer method. Write the algorithm for back-face detec-List the advantages and disadvantages of back-face detection

Explain the different illumination methods and different rendering methods in detail. Write its advantages and disadvantages

gorithms for curve generation and write the algorithm for Bezier Compare and contrast among spline, B-spline and Bezier alcurve generation.

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