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END TERM EXAMINATION

Paper Code: MCA 203

THIRD SEMESTER [MCA] DECEMBER 2015

ime : 3 Hours	Subject: Computer Graphics
Note: Attempt any five questions includ Select one question for	Maximum Marks :60
Select one such	ing Q.no. 1 which is compulsory.
The question ji	om each unit.
b) Define the following: i) Pixel ii) Resolution c) Explain aliasing and antialiasing. d) What is the difference between window e) What is the condition of clipping point f) What is the basis function for B-spline g) Explain parametric continuity conditio h) What is View Confusion?	and viewport? against a given rectangular window?
What is a vanishing point? Why homogeneous coordinate are use computer graphics?	ed for transformation computation in
2. a) Use Bresenham's method to derive degenerate straight line segment. b) Develop a Bresenham's circle drawing between 90° and 135°.	(E)
A square has apposite vertices (0,0), translate it in such a way that the centre (1,1). Further the transformation to s way that its area is four times the origin Explain pivot point rotation in detail.	re of the square is shifted to the point
a) Find the equation of Bezier Curve which and is controlled through points (7,5) are b) What is the difference between interpolar	ation and approximation splines? (5)
b) List the various properties of Bezier curv	order continuities? (5) ve. (5)
a) Explain Cavalier and Cabinet projection b) Describe Boundary Representation.	(40)
a) Use the Cohen Sutherland algorithm to against a window lower left hand corner b) Explain one point, two point and three p	
a) Derive the equation of a Reflection vector Explain Specular Reflection.	r. (w -10) 150-90 for (-3) (G) +10 (5) (G) (5)
a) Discuss Phong Shading. b) Explain Floating Horizon Method. ************************************	(5)
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