SF-sem-IN-CBGS-computers

22/12/15

QP Code: 5526

(3 Hours)

[Total Marks: 60

	N. B	 Question No. 1 is compulsory. Solve any three questions from the remaining Assume suitable data wherever necessary. 	
1.	(a) (b) (c) (d)	State what is meant by clipping. Explain any one clipping algorithm Explain flood fill algorithm in detail Differentiate between random scan and raster scan technique Explain the various color models in detail	05 05 05 05
2	(a) [b)	Define window and viewport. Derive window to viewport transformation Explain what is meant by Bezier curve. Also explain how a Bezier surface can be generated from Bezier curve	10 10
3	(a) (b)	What is meant by parallel and perspective projections? Derive the matrix for perspective projections Explain the steps used in rotation of 2 D object about an arbitrary axis and hence derive the matrix for the same	10
4	(a)	Explain midpoint circle algorithm. Explain the same to plot a circle whose radius is 10 units Explain half toning and dithering techniques in detail	10
5	(a) (b)	Derive Bressenhams line drawing algorithm for lines with slope < 1 Explain Gourand and Phong shading techniques in detail	10 10
6	(a) (b) (c)	Write short notes on:- (any two) Polygon clipping method. OpenGL Sweep representations	20

Course: S.E. (SEM-IV) (REV-2012) (CBSGS) (COMPUTER ENGG) (PROG-T1124)

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Correction:

Please do the following corrections in the SE / COMP / IV-SEM / NOV-2015 Paper

SUBJECT CODE: 5526

Subject: Computer Graphics

Printed as Total Marks: 60

Change it as Total Marks: 80

Query Update time: 22/12/2015

03:10 PM

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(J.S.)