Roll No.

24253

B. Tech 5th Semester (CSE)

Examination – December, 2016 COMPUTER GRAPHICS

Paper: CSE-303-F

Time: Three Hours]

[Maximum Marks: 100

Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions. Question No. 1 is compulsory. Select one question from each Unit.

- 1. (a) Define ambient, diffuse reflection and specular reflection.
- (b) What is the difference between random scan and raster scan display?
- (c) Explain the following with example: Scaling, reflection.
- (d) What is the importance of removal of 'Hidden Surface?(e) Explain view port and clipping.

24253-5250-(P-3)(Q-9)(16)

P. T. O.

UNIT -I

- 2 (a) In what way interactive graphics differ from area of interactive graphics system. passive graphic? Enumerate some application
- (b) Explain midpoint circle drawing algorithm.
- w. (a) Write and explain the boundary fill algorithms
- (b) Explain Bresenham's line drawing algorithm.

UNIT - II

- coordinates of the triangle A (0, 0). B(1, 1), C(5, 2) after Describe the transformation used in magnification and reduce to half its size. it has been (a) magnified to twice its size and (b) reduction with respect to origin. find the new
- (a) Explain Cyrus Beck line clipping algorithm

5

(b) Write and explain Sutherland-Cohen algorithms for polygon clipping?

UNIT - III

- 5 (a) Explain Z-buffer algorithm.
- (6) Describe scale line algorithms for hidden surface removal.

24253-5250-(P-3)(Q-9)(16)

(2)

- 7. (a) Explain the following with example: Translation scaling, Rotation and composite transformation.
- 0 What do you mean by projection? Explain different types of projection.

VI - TINU

- 00 (a) uniform B-Spline with suitable examples. Differentiate between uniform B-Spline and non
- (b) of Bezier curve. what is Bezier curve? describe various property
- 9 (a) be improved with filtering? What is an image? How quality of an image can
- (b) Define the term shading? Differentiate between Gouraud Shading model and phong shading

Download all Notes and papers from StudentSuvidha.com

(3)