Roll No

IT-602

B.E. VI Semester

Examination, June 2013

Computer Graphics and Multimedia

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks:35

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Note: i) Attempt all questions with internal choice.

ii) All questions carry equal marks.

Unit - I

- What are the function of interactive input devices? Give logical classification of graphical input devices?
 - Differentiate between Raster and Random display.

OR

Explain the working of keyboard and scanner?

Unit - II

- 3. a) Develop Bresenham's circle drawing algorithm for drawing circular are of radius R centered at (0, 0) starting (R,0) and lying in forth quadrant between 0 and -45° degree?
 - What are the drawback of DDA line drawing Algorithm?

4. Write the properties of Bezier curve. A bezier curve is drawn using the control points $P_1(1, 1)$, $P_2(2,3)$, $P_3(4,3)$ and $P_4(3,1)$. Find the equation of Bezier curve and draw its rough sketch?

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Unit - III

- Obtain mirror reflection of triangle with vertices A(0,0), B(0,50), C(-20,30) about the line Y=X+2.
 - Define RGB color model.

OR

- 6. a) Explain why sutherland-Hodgman polygon clipping algorithm works for only convex clipping region.
 - Explain phong and Ground shading.

Unit - IV

- 7. a) What are the different types of Authoring tools in multimedia? Discuss each in brief.
 - b) Explain SCSI?

OR

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- 8. a) What are the components of multimedia system? How they are linked with each other?
 - Explain multimedia databases?

Unit - V

9. What do you mean by MIDI? What are the advantages of using MIDI files for generating background music for multimedia applications.

OR

10. Explain JPEG compression in details.

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