Write the properties of Bezier curves?

Write any five file formats for multimedia system?

Explain the SCSI.

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MCA-403 M.C.A. IV Semester

Examination, June 2017

Computer Graphics And Multimedia

Time: Three Hours

Maximum Marks: 70

[Total No. of Printed Pages: 2

Note: i) Attempt any five questions

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Total No. of Questions: 8]

ii) All questions carry equal marks.

1. Explain Bresenham's line drawing algorithm with example?

- 2. State Bresenham's circle Algorithm and illustrate the algorithm with example. State merits of the algorithm?
- 3. A triangle having the vertex at A(0, 0), B(5, 5) and (10, 4). Find the transformation matrix for rotation of 45° about origin.
- 4. Differentiate between Flood fill and boundary fill algorithms. Apply the stack based seed fill algorithm to fill the polygon defined by the vertices (1, 1), (1, 4), (3, 6), (8, 6) and (8, 1). The seed pixel is at (4, 3) and polygon in boundary filled.
- 5. Write down Sutherland -Cohen line cutting algorithm. Is this applicable to any of the window?

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- 6. Write short note on Mach-band effect in shading models?
- 7. Explain 3D rotation about x, y and z axis and write the corresponding transformation matrices?

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