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Roll No

CS-504 (GS)**B.E. V Semester**

Examination, December 2017

Grading System (GS)**Computer Graphics and Multimedia***Time : Three Hours**Maximum Marks : 70***Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain the Raster Scan graphics with application area of Raster Graphics. Also explain how we generate Raster Image? 7
- b) Compare simple DDA line drawing algorithm with Bresenham's algorithm. Does the points generated by both algorithms are same? 7
2. a) What do you mean by aliasing and antialiasing? Discuss one method for antialiasing? 7
- b) A triangle having the vertex at A(0, 0) B(5, 5) and C(10, 4). Find the transformation matrix for rotation of 45° about origin? 7
3. Explain the following with the reference of 2D transformations: 14
 - i) Translation
 - ii) Scaling
 - iii) Rotation

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4. a) Define each of the following : 7
 - i) World Coordinate System (WCS)
 - ii) Viewing Coordinate System (VCS)
- b) What is Perspective projection? What do you mean by vanishing point and perspective forecasting? 7
5. Explain Bezier curve with its properties and compare this curve with B spline curves. 14
6. a) What are the components of Multimedia System? In what format data is stored in a computer. 7
- b) Explain any two Audio File Formats. 7
7. a) Which transform domain technique is used in JPEG compression? 7
- b) What is Animation? Discuss the principles of animation? Write various application of animation. 7
8. Write a short notes (any three): 14
 - a) Video File Formats
 - b) Multimedia databases
 - c) Shading
 - d) Text File Formats
 - e) Clipping

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