EX-220

B.Tech. Vth Semester (New Scheme) CSE

Examination, 2022-23

Computer Graphics & Multimedia

Paper - CS-504

Time : 3 Hours]   **[Maximum Marks : 60**

Note :- Attempt any five questions. All questions carry equal marks.

1. (a) Differentiate between Raster scan display and Random scan display.

   (b) Explain the working of storage tube display.

2. (a) Implement the DDA algorithm to draw a line from $(0, 0)$ to $(4, 4)$.

   (b) Explain Bresenham's algorithm for circle drawing or circle generation.

3. (a) Write the difference between parallel and perspective projection.

   (b) What is line clipping and polygone clippings? Can you use line clipping algorithm for polygone clipping? Justify.

4. (a) Define different data and file formats standards of multimedia.

   (b) Define multimedia authoring tools.

5. (a) Explain the working of CRT with the help of diagram.

   (b) Write down shadow mask CRT and beam penetration.

6. (a) Explain mid point circle generation algorithm.

   (b) Write down method for simulating acceleration in computer graphics.

7. (a) Define multimedia? Characteristics of multimedia presentation.

   (b) Write down various video file format.

8. Explain the following : (Any two)

   (i) Phong shading

   (ii) RGB & CMY color model.

   (iii) Basic illumination model.

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