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CSS 205

Second Semester M.Sc. Examination, September/October 2022
COMPUTER SCIENCE
Computer Graphics And Multimedia With Java

Time : 3 Hours

Max. Marks : 70

Instruction : Answer any five questions. All questions carry equal marks.

1. a) What is Computer Graphics ? Indicate five practical applications of Computer Graphics. 7
b) With a neat diagram, explain the working principle of CRT. 7
2. a) Differentiate between Random scan and Raster scan. 6
b) Write a note on the following : 8
 - i) Pixel
 - ii) Device coordinates
 - iii) Isotropic
 - iv) Anisotropic
3. a) Explain Bresenham's Line drawing algorithm with an example. 7
b) What is clipping ? Explain Cohen Sutherland line clipping algorithm. 7
4. a) What is Polygon clipping ? Explain Sutherland Hodgeman Polygon Clipping. 7
b) What is geometric transformation ? Explain basic two dimensional transformations with an example. 7

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| 5. a) Explain Window to View point transformation of 2-D objects. | 7 |
| b) Explain Hidden Line removing with an algorithm. | 7 |
| 6. a) Explain Z buffer algorithm with example. | 7 |
| b) What is visible surface detection ? Explain back face detection method. | 7 |
| 7. a) List and explain applications areas of Multimedia. | 7 |
| b) Explain evolving technologies for multimedia systems. | 7 |
| 8. a) Explain various multimedia data interface standards and file formats. | 7 |
| b) Explain features of multimedia authoring tools. | 7 |
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