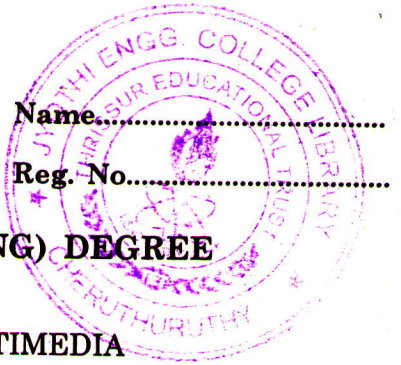


C 5712



**EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE  
EXAMINATION, JUNE 2005**

**CS 2K 802—COMPUTER GRAPHICS AND MULTIMEDIA**

(New Scheme)

Time : Three Hours

Maximum : 100 Marks

**Part A**

*Answer all questions.*

1. Explain the use of recursion in boundary-fill algorithm.
2. Classify projection methods. Briefly explain each class.
3. Explain the working of a digitizer.
4. Describe the features of authoring systems.
5. Give the format of MIDI message. What are the different types of MIDI messages ? Explain.
6. Explain how dynamics is included in interactive graphics technology.
7. Explain the functions of MDBMS.
8. Explain huffman coding algorithm.

(8 × 5 = 40 marks)

**Part B**

1. Write the Bresenham's line drawing algorithm for  $|m| < 1$ . Digitize the line whose end points are (0,0) and (5, 5).

(15 marks)

*Or*

2. Find the transformation matrix for rotating an object about an arbitrary line. (15 marks)
3. Describe the features of CD-ROM technology. (15 marks)

*Or*

4. Explain the functions of various multimedia servers in communication. (15 marks)
5. Explain the steps of Image recognition. (15 marks)

*Or*

6. (a) Describe the characteristics of EDTV. (8 marks)
- (b) Explain the different MIDI reception modes. (7 marks)
7. Explain the different types of operations that are performed using multimedia databases. (15 marks)

*Or*

8. Explain in detail about H 261 standard.

(15 marks)

[4 × 15 = 60 marks]