

(16)

Exam.Code:1006
Sub. Code: 7698

1059 ✓
M.E. Information Technology
Second Semester
MEIT-211: Multimedia Systems

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

- I. Attempt the following:-
- a) What are various MIDI devices?
 - b) What is the significance of RGB and YUV signal?
 - c) Compare and contrast JPEG and MPEG.
 - d) Describe the key aspects of Real Time System. How will you define a 'Resource'?
 - e) Draw the QoS layered model for Multimedia communication system. (5x2)

UNIT – I

- II. a) Explain the traditional data stream characteristics of multimedia.
b) Describe the components of speech recognition and understanding. (2x5)
- III. Give the steps followed in Image recognition. Discuss each in detail with labelled diagrams. (10)
- IV. An Video Graphic Array (VGA) supports a resolution of 640 x 480 pixels having 256 different colors. What is its storage capacity in bits and bytes? (10)

UNIT – II

- V. What are the steps in data compression? Explain the essence of Huffman Coding with the help of an example. (10)
- VI. a) Explain the importance of File systems in an operating system? How is contiguous storage different from non-contiguous?
b) Define the objectives of Multimedia DBMS? (2x5)
- VII. With reference to Collaborative computing, discuss its significance, tools and dimensions. (10)

x-x-x