

Exam.Code:0919  
Sub. Code: 6363

1078  
B.E. (Computer Science and Engineering)  
Seventh Semester  
CS-712: Multimedia System Design

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) Define Nyquist frequency.
- b) Lossy v/s lossless compression.
- c) Define resolution of digital image.
- d) Define pattern substitution.
- e) Differentiate bmp and Jpeg images.
- f) Multimedia applications.
- g) Briefly explain JPEG methodology.
- h) How to measure noise in color images?
- i) CMY and CMYK models.
- j) Explain RAID.

(10x1)

**UNIT – I**

- II. Differentiate among optical and magnetic storage. Explain in detail the various CD standards. (10)
- III. a) Explain the multimedia hardware and software devices.  
b) Discuss the components of MIDI system. (5,5)
- IV. Explain multimedia standards for document architecture and document interchange. (10)

**UNIT – II**

- V. Discuss with one example for each the Huffman coding and LZW text compression techniques. (10)

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(2)

VI. a) Compare MPEG with H.264.

b) Compare TIFF Vs RIFF.

(5,5)

VII. Write note on the following:-

a) Defining objects for multimedia system.

b) Multimedia system architecture.

(5,5)

x-x-x