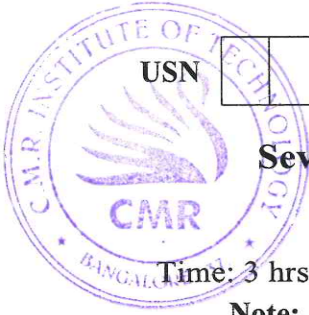


CBCS SCHEME



15EC741

Seventh Semester B.E. Degree Examination, July/August 2022 Multimedia Communication

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain multipoint conferencing with neat block diagram. (06 Marks)
- b. Define QoS. Explain QoS parameters associated with a packet switched network. (06 Marks)
- c. Explain communication modes in brief. (04 Marks)

OR

- 2 a. Explain telephone network, integrated services Digital Network, and Broad band multiservice network with neat block diagram. (08 Marks)
- b. Explain packet switched network and circuit switched network with neat block diagram. (08 Marks)

Module-2

- 3 a. Explain digitization principles using neat block diagram of encoder and decoder and waveforms. (10 Marks)
- b. Explain raster scan display architecture with neat block diagram. (06 Marks)

OR

- 4 a. Calculate the time to transmit the following digitized images at both 64kbps and 1.5Mbps :
 - i) a $640 \times 480 \times 8$ VGA – compatible image
 - ii) a $1024 \times 768 \times 24$ SVGA – compatible image(06 Marks)
- b. Explain PCM speech with neat block diagram. (06 Marks)
- c. Assuming the CD – DA standard is being used, estimate storage capacity of a CD – ROM to store a 60 minute multimedia title. (04 Marks)

Module-3

- 5 a. Encode the text: went • using arithmetic coding if following are probabilities of each character. e = 0.3, n = 0.3, t = 0.2, w = 0.1 and • = 0.1. (10 Marks)
- b. Encode the text : AAAABBCD using static Huffman coding. (06 Marks)

OR

- 6 a. Explain working of JPEG neat block diagram of encoder and decoder. (12 Marks)
- b. Explain LZ technique. (04 Marks)

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Module-4

- 7 a. Explain DPCM with neat block diagram of encoder and decoder. (12 Marks)
- b. Explain code – excited LPC in brief. (04 Marks)

OR

- 8 a. Explain MPEG – 4 with neat diagram of encoder and decoder. (10 Marks)
b. Explain main features of a DMS. (06 Marks)

Module-5

- 9 a. Explain error resilient technique for video. (06 Marks)
b. Explain streaming video across internet with neat diagram. (10 Marks)

OR

- 10 a. Explain video delay causes in ATM network. (08 Marks)
b. Explain MPEG video error concealment with block diagram. (08 Marks)

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