

Eighth Semester B.E. Degree Examination, Aug./Sept.2020

Multimedia Communication

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART - A

- 1 a. Define the term multimedia and explain any two networks used for transferring multimedia types. (12 Marks)
 - b. Explain interactive applications on the internet.

(08 Marks)

- 2 a. Explain the colour derivation principles and Raster Scan principles. (10 Marks)
 - b. Explain with a neat schematic an Audio/Sound synthesizer.

(10 Marks)

- 3 a. Using static Huffman coding, derive the number of bits required to transfer string of characters AAAABBCD. Generate Huffman code tree. (08 Marks)
 - b. Explain with a neat block diagram the operation of JPEG encoder.

(12 Marks)

- 4 a. Explain with a neat block diagram the MPEG perceptual coder. (10 Marks)
 - b. Explain video compression principles with examples for the various frame types. (10 Marks)

PART - E

- 5 a. Explain the principle of operation of token ring. (10 Marks)
 - b. Explain spanning tree algorithm.

(10 Marks)

- 6 a. Explain IPV4 datagram format. (10 Marks)
 - b. Write a note on ARP and RARP message formats.

(10 Marks)

- 7 a. Explain the general structure of ATM switch architecture along with time decision bus schematic. (10 Marks)
 - b. Explain the ATM protocol architecture.

(10 Marks)

- 8 a. Explain the TCP segment format used in TCP protocol operation. (10 Marks)
 - b. Describe the use of RTP and RTCP protocols by means of diagram and show its relation to the TCP/IP protocol stack. (10 Marks)

* * * * *

42+8 = 50, will be treated as malpractice. compulsorily draw diagonal cross lines on the remaining blank pages. Any revealing of identification, appeal to evaluator and /or equations written eg, Important Note: 1. On completing your answers, 2. Any revealing of identification