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

- Define the term multimedia and explain any two networks used for transferring multimedia 1 (12 Marks) (08 Marks)
 - Explain interactive applications on the internet. b.

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

(10 Marks)

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

(12 Marks)

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

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BANGALORE - 560 037 (10 Marks) Explain the principle of operation of token ring

Explain spanning tree algorithm.

(10 Marks)

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

(10 Marks)

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

(10 Marks)

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

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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