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10EC/TE841

Eighth Semester B.E. Degree Examination, June/July 2015
Multimedia Communications

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions, selecting
atleast TWO questions from each part.**

PART – A

- 1 a. What is multimedia? Explain its applications? (08 Marks)
b. With diagram explain different types of multimedia networks. (12 Marks)
- 2 a. Explain clearly different types of text data representation. (08 Marks)
b. With schematic diagram, explain PCM signal encoding and decoding principles. (12 Marks)
- 3 a. Explain clearly about image encoding and decoding methods with diagram. (14 Marks)
b. Explain Huffman coding procedure for encoding any given data. (06 Marks)
- 4 a. What is the role of DCT and quantization in video compression? (08 Marks)
b. Explain perceptual coding technique with diagram. (08 Marks)
c. Explain aspect ratio? (04 Marks)

PART – B

- 5 a. Explain the operation of token ring network. (10 Marks)
b. Explain the LAN protocols. (10 Marks)
- 6 a. With example explain fragmentation and reassembly in the internet. (10 Marks)
b. Explain clearly datagram format of IPv6. (10 Marks)
- 7 a. With the help of diagram, explain broadband ATM cell formats. (10 Marks)
b. Explain LAN emulation in ATM. (10 Marks)
- 8 a. Explain RTP and RTCP protocols. (10 Marks)
b. Explain TCP and UDP protocols. (10 Marks)
