USN [| | | | | | | | |]   **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)

* * * * *