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BT-8/D-18 38012

MULTIMEDIA COMMUNICATION
ECE-406E

Time : Three Hours] [Maximum Marks : 100

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit.

Unit I

1. (a) What do you mean by multimedia communication ? Explain integrated services digital networks. **10**

   (b) Explain interpersonal application of multimedia communication. **10**

2. Explain the representation of audio and video in detail. **20**

Unit II

3. (a) What do you mean by Compression ? Also explain various compression principles. **10**

(b) Message comprising seven different characteristics A to G are to be transmitted over the data link. Relative frequency of occurrence of each characters is :

A 0.10, B 0.25, C 0.05, D 0.32, E 0.01, F 0.07, G 0.2

Use static Huffman coding to derive the code-words. **10**

4. (a) Differentiate between GIF and TIFF. **10**

(b) Explain the concept of quantization with the help of tables in JPEG encoder. **10**

Unit III

5. Differentiate between MPEG audio coders and Dolby audio coders with the help of block diagrams in detail. **20**

6. (a) Explain basic video compression principles. **10**

(b) Explain the detail H.261 video compression standards. **10**

Unit IV

7. (a) Explain, why DNS is required with the internet and describe its main functional parts. **10**

   (b) Explain the concept of URLs and HTTP in World Wide Web. **10**

8. Write short notes on the following :

   (a) Electronic Mail Message

   (b) Internet Telephony. **20**

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