

Roll No.

Total Pages : 03

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

