

Roll No.

Total Pages : 2

BT-8/M-20

38148

MULTIMEDIA COMMUNICATIONS

Paper–ECE-428-N

Option–I

Time Allowed : 3 Hours]

[Maximum Marks : 75

Note : Attempt five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

UNIT–I

1. (a) Define Multimedia. Explain in detail :
- (i) Data network.
 - (ii) B-ISDN. 2+3+3
- (b) State and explain basic form of representation of :
- Text, Images, Audio and Video. 7
2. (a) List and explain various multimedia communication applications. 8
- (b) Calculate the time to transmit a $1024 \times 768 \times 24$, a SVGA compatible image at both 64 Kbps and 1.5 Mbps. 7

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UNIT-II

3. (a) What is Arithmetic coding? Explain it with the help of an example. 8
- (b) Write a note on JPEG. 7
4. (a) What is static Huffman coding? Explain it with the help of an example. 8
- (b) Write a note on Graphics Interchange Format (GIF). 7

UNIT-III

5. What is Adaptive differential PCM compression scheme? Explain it with the help of block diagram. 15
6. Write short notes on the following :
- (a) H.263. 8
- (b) Linear predictive coding. 7

UNIT-IV

7. Define multimedia synchronization. What are the requirements of systems clock reference (SCR) in time stamping and pack architecture? 15
8. Write short notes on the following :
- (a) Content based image retrieval system. 8
- (b) Video content representation. 7