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Total No. of Pages : 02

Total No. of Questions : 08

M.Tech. (ECE) (Sem.-2nd)

MULTIMEDIA COMMUNICATION SYSTEMS

Subject Code : EC-513

Paper ID : [E0572]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carry TWENTY marks.

1. a. Explain various protocols and standards for multimedia communication. 15
b. Discuss various compression issues for multimedia communication. 5
2. a. What do you mean by Block codes? Explain the working of Reed Solemn bloc coding with suitable example. 10
b. Why switching is done in networks? Discuss circuit and packet switching techniques in detail. 10
3. Why CD audio quality is always considered better than any other audio format? Explain the Dolby audio coders. 20
4. Differentiate between Fixed and Variable text compression techniques. Which one is better and why? How to implement Lempel-Ziv coding? 20
5. a. Discuss various file formats used for multimedia communication with suitable example. Also write down the applications of these formats. 15
b. Write down the challenges faced by encryption and decryption. 5

6. a. How Audio/Video streaming is implemented in multimedia communication?
10
- b. What do you mean by Video conferencing? How it helps in day to day working of industry?
10
7. a. Discuss HFC and FDDI networks in detail.
10
- b. Explain the lossy and lossless compression techniques.
10
8. Write short notes on :
- a) Entropy encoding
- b) MPEG
- c) DFX
- d) Enterprise Networks
20