

Roll No. 

Total No. of Pages : 1

Total No. of Questions : 08

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

**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) What is meaning of Block mode media, continuous media and streaming relating to different media used in multimedia communications?  
(b) Describe the terms : Hypertext, pages/documents and hyperlinks.
2. What is difference between lossy and lossless compression? Explain the static and dynamic coding related to text compression.
3. Explain the DC coefficient, horizontal and vertical spatial frequency coefficients related to DCT algorithm. Also discuss JPEG decoding.
4. Explain the principle DPCM and Adaptive DPCM used in audio compression technique.
5. Explain the principle of Arithmetic and Lempel Ziv Welsh coding used in text compression.
6. What is the difference between circuit and packet switching? Explain the datagram and virtual circuit with the help of example.
7. (a) Explain with the help of block diagram the principle of teleconferencing.  
(b) Give the data stream characteristics for continuous media.
8. Write short note on :
  - (a) Entertainment networks.
  - (b) BMP
  - (c) High speed modems.