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M.Tech.(ECE) (Elective-II) (Sem.–2)

MULTIMEDIA COMMUNICATION SYSTEMS

Subject Code : EC-513

Paper ID : [E0572]

Time : 3 Hrs. Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :

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

1. a) What do you mean by multimedia and multimedia communication systems?
   b) Explain the following : sampling rate, sampling resolution, bit rate quantization error, signal to noise ratio.
2. a) What do you mean by encoding? Explain source and channel encodings.
   b) Explain circuit switched and packet switched networks along with their relative advantages and disadvantages.
3. Discuss various types of multimedia information and their representations.
4. a) Why is data compression including file compression, highly desirable for multimedia activities?
   b) Show how would you use Huffman coding to encode the following set of tokens :

   BABACACADADABBCBABEBEDDABEEEBB

   How is this message transmitted when encoded?
5. a) What do you mean by encryption and decryption? What are the challenges involved in encryption and decryption?
   b) Discuss in detail JPEG.
6. a) What is the difference between lossless and lossy compression? What broad types of multimedia data are each most suited to?
   b) Write a note on ATM.
7. What are the various text and image compression techniques? Discuss each.
8. Write notes on **any two** of the following :
   a) Enterprise networks
   b) High speed modem
   c) Video conferencing

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