



(Pages : 2)

A – 3872

Reg. No. :

Name :

**Seventh Semester B.Tech. Degree Examination, June 2016
(2008 Scheme)**

**08.704 (2) : MULTIMEDIA SYSTEMS AND DATA COMPRESSION
(Elective – I) (R)**

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions :

(10×4=40 Marks)

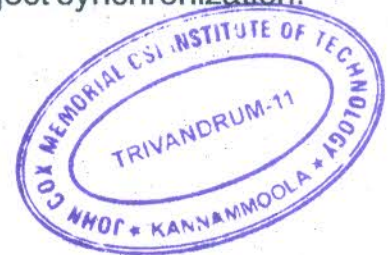
1. Write any four applications of multimedia systems.
2. List the types of multimedia systems.
3. What is stand alone multimedia systems ? Explain briefly.
4. Mention the difference between lossless compression and lossy compression.
5. What is entropy coding ? Explain with an equation.
6. Discuss Dolby audio coders.
7. What is text compression ? Explain with probabilities of occurrence of the letters.
8. Write the basic principles of video compression.
9. What is motion estimation ? Explain.
10. Mention the difference between intra object and intra object synchronization.

PART – B

Answer **any one** question from **each** Module.

Module – I

11. Explain the architecture of multimedia systems with neat diagram. 20
- OR
12. Discuss about the data modeling in Multimedia DBMS. 20



P.T.O.



Module - II

- 13. Explain the principle of operation of LZW compression algorithm and how it is different from LZ algorithm. 20

OR

- 14. a) Discuss about JPEG Image Compression with its image block preparation. 10
b) Explain about MPEG audio coders. 10

Module - III

- 15. a) Explain the basic operations of MPEG-4 video compression standard. 10
b) Discuss about reference model for multimedia synchronization. 10

OR

 - 16. a) Discuss about MPEG-7 video compression standard with encoding and decoding in detail. 10
b) Explain about I, P and B-frames in video compression. 10
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