



Reg. No. :

Name :

**Seventh Semester B.Tech. Degree Examination, May 2013
(2008 Scheme)**

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

Time : 3 Hours



Max. Marks : 100

PART - A

Answer **all** questions.

1. Explain the isochronous transmission mode of data stream.
2. What is distributed multimedia database ?
3. What is meant by database model in multimedia ? Mention any two types.
4. Define the MIDI standard.
5. What are the different layers of video data stream ?
6. Explain the source encoding process used in multimedia systems.
7. Define entropy coding.
8. What is motion compensation ?
9. What is runlength encoding ? Perform runlength encoding of following data sequence :
AAAAABAAAABBB
10. Mention any two video compression techniques.

(10x4=40 Marks)



PART – B

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

(3×20=60 Marks)

Module – I

11. a) How data modelling is done for time based media with example ? 10
b) Discuss the different types of media. 10

OR

12. What are the key issues regarding the multimedia storage and retrieval in DBMS ? 20

Module – II

13. a) What are the different approaches for text compression ? Discuss. 10
b) Explain LZ compression technique with an example. 10

OR

14. a) Explain static and dynamic Huffman coding with example. 10
b) What are the various phases of JPEG compression technique ? 10

Module – III

15. Discuss the reference model for multimedia synchronization. 20

OR

16. What are the presentation requirements for multimedia synchronization ? Explain. 20