



Reg. No. :

Name :

**Seventh Semester B.Tech Degree Examination, October 2014
(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. What are the characteristics of data streams of block mode media ?
2. What are the different kinds of multimedia applications ?
3. Distinguish between ISDN and PSTN.
4. What is the basic principle of ADPCM ?
5. How is Dolby audio coders better than MPEG audio coders ?
6. What is the basic principle of LZW coding ?
7. What is dynamic coding ? Where is it used ?
8. What are the different frame types in video compression ?
9. Explain inter object synchronization.
10. How is motion estimation done ?

PART – B

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

Module – I

11. Explain the database models associated with MMDBMS. 20
- OR
12. Explain the architecture of multimedia systems. 20

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Module – II

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| 13. a) Explain arithmetic coding. | 10 |
| b) Explain LZ coding. | 10 |
| OR | |
| 14. Explain the various steps in JPEG compression. | 20 |

Module – III

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| 15. Explain how video compression is carried out ? | 20 |
| OR | |
| 16. Explain MPEG-2 standard. | 20 |