

[This question paper contains 2 printed pages.]

Your Roll No.

3235

J

MECTA

COMPUTER TECHNOLOGY AND APPLICATIONS

Paper-CS.651

Multimedia and Applications

Time : 3 Hours

Maximum Marks : 100

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

Attempt any five questions.

1. (a) Explain the benefits of using multimedia. 8
- (b) Define audio and explain its main characteristics. 6
- (c) What are digital image and digital video? 6
2. (a) Distinguish among Entropy, Source and Hybrid encoding. Describe the Huffman coding technique. 10
- (b) Explain the following :
 - (i) P-frames
 - (ii) B-frames 10

[P. T. O.]

3. (a) What is multimedia document? How is it managed ? 10
- (b) Describe the various requirements for multimedia DBMS. 10
4. Explain the following : 5×4
- (a) Multimedia Hardware/Software.
- (b) Local *vs.* Networked multimedia.
- (c) Multimedia tile types.
- (d) Resource Reservation Protocol.
5. (a) What are the challenges of multimedia networking? How these are managed? 10
- (b) What are multimedia applications supported by ATM networks? 10
6. (a) Distinguish between the dedicated and the timeline based multimedia authoring systems. 10
- (b) What is Interactive Video? Explain various levels of Interactive Video. 10
7. Write short notes on any *two* of the following : 10+10
- (a) Virtual Reality.
- (b) Sound Standards.
- (c) Multimedia Teleconferencing.