

Instructions :

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Questions No. 1 is compulsory.

1. Answer any SEVEN questions. 2×7=14
- (a) Which one of the following is the characteristic of a multimedia system?
 - (i) High storage
 - (ii) High data rates
 - (iii) Both (i) and (ii)
 - (iv) None of the mentioned
 - (b) List any two applications of Multimedia.
 - (c) Define arc in animation.
 - (d) What is sound and how sound is digitized?
 - (e) MHEG, SGML, DTD stands for
 - (f) Which of the following does MPEG stand for?
 - (i) Movie protocol Experts Group

- (ii) Movie Protocol Experimentation Group
 (iii) Motion Picture Experts Group
 (iv) Movie and Protocols Engineering Group
- (g) MIDI stands for:
- (i) Musical Instrument Digital Interface
 (ii) Musical Instrument Digital Instruction
 (iii) Musical Instrument Design Interface
 (iv) Multimedia Instrument Digital Interface
- (h) In which area Multimedia components are used?
- (i) Raster images are also known as:
- (i) bitmap images
 (ii) vector images
 (iii) clip art images
 (iv) multimedia images
- (j) A good example of hypermedia in actual use is:
- (i) The Internet
 (ii) Level I videodisc
 (iii) Videotape
 (iv) Audiotape
2. (a) Explain characteristics of multimedia and its applications? 7
 (b) How do sound is digitized ? Write in detail. 7

- (a) What is Multimedia software and hardware ? Discuss. 7
 (b) Explain the components of synthesizer and its functions? 7
4. (a) What are various audio formats available ? Explain any two audio tools. 7
 (b) Write short notes on MIDI? Explain the differences between MIDI and Digital Audio. 7
5. Discuss in detail about any two storage models used for storing multimedia information. 14
6. (a) Briefly write about any two image retrieval techniques. 7
 (b) Differentiate between MP3 and MPEG formats. 7
7. (a) Explain how communication is carried out using messages. 7
 (b) Show how to add menus and dialog boxes for a windows based multimedia application? 7
8. Explain how Multimedia is used in business, educational and public places in detail? 14
9. Write short notes on: 7×2=14
 i. Interactive TV and Media editors
 ii. Video-On-Demand and video conferencing.