

- N.B** (1) Question NO.1 is compulsory.
(2) Attempt any **four** from remaining **six** questions.
(3) Illustrate answers with neat sketches wherever required.
(4) Answers to question should be grouped and written together.
- Q1** (a) What is Multimedia? Explain various elements of Multimedia? **10**
(b) A video can have duration (T) of 1 hour, a frame size of 640*480 at a color depth of 24 bits and a frame rate of 25 fps.calculate the video size? **10**
- Q2** (a) Explain in detail various principles of Animation? **8**
(b) Explain in detail Bitmap image and vector Drawing image? **7**
- Q3** (a) What is MIDI and Digital audio? Compare and contrast the use of MIDI and digitized audio in Multimedia application? **8**
(b) Explain the roles and responsibilities of all the Multimedia team members? **7**
- Q4** (a) Explain Multimedia authoring tools and its different types in detail? **8**
(b) Discuss different types of Multimedia structures? How they are organized? **7**
- Q5** (a) Explain the process of making Multimedia? **8**
(b) A message consisting of 5 different symbols ABCDE .The symbol frequencies are A-24 ,B-12,C-10,D-8,E-8. Generate a Huffman code tree and how many bits are required to transmit the complete string ABCDE. **7**
- Q6** (a) Discuss the important role of planning and costing in Multimedia? **8**
(b) What is compression? Explain JPEG compression process in Detail? **7**
- Q7** Write short notes on any three. **15**
(a) Image file format
(b) Animation Techniques
(c) Entropy encoding Run length
(d) CBT
(e) Alpha and Beta testing