



- Notes :
1. Solve Question 1 OR Questions No. 2.
 2. Solve Question 3 OR Questions No. 4.
 3. Solve Question 5 OR Questions No. 6.
 4. Solve Question 7 OR Questions No. 8.
 5. Solve Question 9 OR Questions No. 10.
 6. Solve Question 11 OR Questions No. 12.
 7. Due credit will be given to neatness and adequate dimensions.
 8. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Define multimedia. Describe the types of multimedia. **6**
- b) What are different elements of MM? Explain in detail. **7**

OR

2. a) Describe network architecture for multimedia system. **7**
- b) Explain the following terms in brief. **6**
 - i) 3D technology and holography.
 - ii) Video conferencing.
3. a) Which platforms are used for development of multimedia project? Explain. **7**
- b) Explain the various hardware devices used for multimedia. **7**

OR

4. a) Describe how Macintosh & windows operating system are used for multimedia. **7**
- b) Discuss in detail MM authoring tools with one example. **7**
5. a) Explain various principles of animation, in detail. **7**
- b) Explain Hypertext and Hypermedia. **6**

OR

6. Write short note on **any two**. **13**
 - i) Animation techniques. **6**
 - ii) MM building block video. **7**
 - iii) Bitmap image and vector based image. **7**

7. a) Explain hardware VS software compression. 7
b) What is lossless & lossy compressions technique? Differentiate them. 7

OR

8. a) What are the requirements for full motion video compression. 7
b) Explain CCITT techniques for image compression. 7
9. a) Explain database organization & Transaction management in Multimedia. 8
b) Enlist the typical features of drawing or painting package. 5

OR

10. Write a short note on **any two**. 13
i) Multimedia designer.
ii) Project manager.
iii) Producer of MM for the web.

11. a) What are different bandwidth bottleneck? Explain. 6
b) Explain virtual reality designing & modeling (VRML) in detail. 7

OR

12. a) Discuss in brief about web page makers and site builders. 6
b) Describe the term delivering on CD-ROM and delivering on DVD. 7
