9. (a) Explain various multimedia file formats. 7

   (b) Discuss database organization and transaction management for multimedia systems. 7

OR

10. (a) Give the working of each team member of multimedia team in detail. 8

    (b) Discuss MPEG compression for video. 6

11. (a) Write note on animation, images and sound for the web. 7

    (b) Explain the process of making multimedia production. 6

OR

12. (a) Explain in detail delivering on CD-ROM and DVD. 7

    (b) Write note on web page makers and site builders. 6

Faculty of Engineering & Technology
Seventh Semester B.E. (Infor. Tech.) (C.B.S.) Examination
Elective—I : MULTIMEDIA SYSTEM

Time—Three Hours] [Maximum Marks—80

INSTRUCTIONS TO CANDIDATES

(1) All questions carry marks as indicated.

(2) Solve Question No. **1 OR** Question No. **2**.

(3) Solve Question No. **3 OR** Question No. **4**.

(4) Solve Question No. **5 OR** Question No. **6**.

(5) Solve Question No. **7 OR** Question No. **8**.

(6) Solve Question No. **9 OR** Question No. **10**.

(7) Solve Question No. **11 OR** Question No. **12**.

(8) Due credit will be given to neatness and adequate dimensions.

(9) Assume suitable data wherever necessary.

(10) Illustrate your answers wherever necessary with the help of neat sketches.

(11) Use of non programmable calculators permitted.

1. (a) Define multimedia. Describe stages of multimedia project. 6

   (b) Explain in brief applications of multimedia. 7

OR

2. (a) Give Multimedia Workstation Architecture, also explain Multimedia Architecture based on interface bus and network architecture for multimedia systems. 8

   (b) What is Virtual Reality ? Explain VRML. 5

3. (a) Write note on Macintosh and Windows platform for development. 5

   (b) Explain connections with respect to multimedia system. 4

   (c) Explain OCR software in detail. 4

OR

4. (a) What is CCD ? What is its use ? Explain in detail one of the devices in which it is used. 5

   (b) What are the types of authoring tools used in multimedia systems ? Explain each of them. 8

5. (a) Give advantages and disadvantages of MIDI over Digital Audio. 5

   (b) What is Hypertext ? Explain in detail the structure of Hypermedia systems. 5

   (c) Write a note on dithering. 4

OR

6. (a) What is difference between 8 bit and 24 bit color images ? What are look up tables ? Explain. 8

   (b) Explain Animation by computer. Also differentiate between computer animation and television animation. 6

7. (a) What is the need for compression ? Explain in detail General Data Compression Scheme. 8

   (b) Explain Hardware vs Software compression. 5

OR

8. (a) Explain in brief binary image compression techniques. 7

   (b) Discuss non-lossy compression for JPEG images. 6