

- N.B. :** (1) Question No. 1 is compulsory.
 (2) Attempt any **four** questions out of the remaining **six** questions.

1. (a) What is Multimedia ? List different categories of multimedia software tools with proper example. **10**
 (b) Illustrate LZW compression and decompression for the following string :- **10**
 ABABBABCABABBA
2. (a) Explain Bilevel Image Compression Standards. **10**
 (b) Explain MPEG video coding. Give comparison between MPEG-1 and MPEG-2. **10**
3. Explain different techniques and terminologies used in Multimedia Networks. **20**
4. (a) List and explain different color models used in Images and Videos. **10**
 (b) Explain different broadcasting schemes for Video-on-Demand. **10**
5. (a) Explain different architectures for content organization in Multimedia Databases. **10**
 (b) Explain similarity based retrieval in Image Databases. **10**
6. (a) Write a short note on TV trees. **10**
 (b) What is media abstraction ? Explain with proper example. **10**
7. Write short note on (any **two**) :- **20**
 - (a) Multimedia authoring tools
 - (b) VRML
 - (c) Audio Databases
 - (d) Video Databases.