

(3 Hours)

[Total Marks : 80]

N.B. : 1) Question No.1 is **compulsory**.

2) Attempt any three from the remaining five questions.

3) Answers to sub-questions should be grouped together.

- Q1. (a) Discuss various analog and digital display standards in detail. [10]
(b) Explain various phases during the planning and development of a multimedia system. [10]
- Q2. (a) What is the role of compression techniques in designing multimedia systems. Explain any two video compression techniques. [10]
(b) Discuss the use of Redundant Array of Independent Disks in multimedia systems. Discuss any four levels. [10]
- Q3. (a) What are full motion videos? Explain the architecture of the video capture board and discuss in brief all its components. [10]
(b) Discuss the desirable features of a scanner to be used in a document imaging system. Explain the working of a Rotary Drum Scanner. [10]
- Q4. (a) What do you mean by digital audio? Explain, How does it differ from a MIDI. [10]
(b) Explain the IMA architectural framework for designing multimedia systems. [10]
- Q5. (a) Explain any two image compression techniques. [10]
(b) Explain various components of a multimedia system. Give relevant examples. [10]
- Q6. Write short notes on **any four** of the following [20]
a) Entropy encoding
b) TIFF
c) Network architecture for multimedia systems
d) Beta Testing
e) Multimedia authoring tools