

(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 methodologies used for planning and monitoring of multimedia system projects. [10]
- (b)** What is MIDI? Explain advantages and disadvantages of MIDI audio over other digital audio formats. [10]
- Q2. (a)** List and explain various print output technologies. [10]
- (b)** Discuss the use of RAID's in multimedia systems. Discuss various RAID levels. [10]
- Q3. (a)** Explain MPEG audio compression process in detail. [10]
- (b)** Discuss the fundamental elements of multimedia systems. Explain with relevant examples. [10]
- Q4. (a)** Explain in detail various digital display standards. [10]
- (b)** Why is the use of compression and de-compression in multimedia systems? Describe lossy and lossless compressions with relevant examples. [10]
- Q5. (a)** What are full motion videos? Explain how are they designed and transmitted over a network. [10]
- (b)** Explain IMA architectural framework used for designing multimedia systems. [10]
- Q6.** Write short notes on **any four** of the following : [20]
- a) Adaptive differential pulse code modulation.
 - b) TIFF.
 - c) Image Scanners.
 - d) Huffman Coding.
 - e) WORM optical drives.