

*Note:* Answer any *FIVE* full questions, selecting at least *TWO* full questions from each *part*.

## PART - A

1. a.	With help of diagram, explain the use of full motion video in multimedia applications.	8
b.	List out the defining objects for multimedia systems and explain.	7
c.	List the data elements for multimedia system and explain any four elements.	5
2 a.	Explain the different types of Image formats.	10
b.	Write a note on VRML with example.	6
c.	Explain the following :	
	i) HDTV	4
	ii) Digital Television	
3 a.	Explain the lossy sequential DCT based mode of JPEG Compression technique with block	10
	diagram.	10
b.	List out basic compression techniques. Explain any two techniques.	10
4 a.	Explain the need of four different frame types followed in MPEG. How the sequence of	6
	execution of these frames are maintained.	0
b.	Explain the basic block diagram of MPEG audio encoding.	8
c.	Write a note on Fractal compression.	6
PART - B		
5 a.	Explain how CD – DA (compact disc digital audio) works.	10
b.	Explain CD – Bridge disc.	4
c.	Compare DVD with CD technology.	6
6. a.	Explain the audio analysis using syntactic and different semantic audio indicators.	10
b.	Explain the analysis of individual images in content analysis.	10
7 a.	Explain the RIFF file format.	10
b.	What are the specification objectives of TWAIN? Explain the TWAIN architecture.	10
8.a.	Explain the components of multimedia system with the help of diagram.	10
b.	What are the different types of multimedia systems? Explain.	10