

Con. 2986-08.

(REVISED COURSE)

CO-4142

(3 Hours)

[Total Marks : 100

N.B. : (1) Attempt any **five** questions.
(2) Assume **suitable** data if **required**.

1. (a) Explain any two authoring systems. Assume that you have been appointed as consultant, suggest Hardware and Software setup to establish Audio-Video editing studio. 10
(b) Write pseudo code for RIFF waveform audio file format with INFO list chunk. Explain five tags used in the format. 10
2. (a) Explain lossy and loss-less compression techniques. 10
(b) Explain shared work space and execution environment. How it can be applicable for car insurance claim settlement ? 10
3. (a) Explain JPEG compression scheme. 10
(b) Suggest different multimedia elements which can be used to develop Vehicle Tracking System for Police dept. Justify your suggestions. 10
4. (a) How does an electronic pen work ? 10
(b) Explain characteristics of voice recognition. Suggest multimedia application in which voice input plays important role. 10
5. (a) In a sport club membership card is awarded after scrutinizing personal details including image, thumb impression and voice recording. Suggest suitable work-flow for enrolling and getting membership card with image and thumb impression. Justify your suggestion explaining limitations of other-work flows. 10
(b) Explain RTP, RTCP, RSVP, RTSP and IP-multicast. 10
6. (a) Explain human factors and design considerations related to virtual reality. 10
(b) Explain Level 0 thru level 5 of RAID functionality. 10
7. Write short notes on :- (any **two**) 20
 - (a) Multimedia Databases
 - (b) Distributed multimedia system
 - (c) Multimedia system design methodology.