

216

(3 Hours)

[Total Marks : 100

Multimedia System

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

(2) Solve any **four** questions from the remaining **six** questions.(3) Assume **suitable** data wherever **required**.

1. (a) Explain different multimedia application classes and suggest an application with shared workspaces and execution environment. 10
(b) Explain JPEG compression scheme. 10
2. (a) Explain dedicated and time line based authoring system. 10
(b) Explain lossy and lossless compression techniques. 10
3. (a) Draw a neat labelled diagram for a flat bed scanner. Explain scanning mechanism and CCD used in scanning operation. 10
(b) Explain RIFF DIBS file format and compare it with RIFF AVI file format. 10
4. (a) Explain level 0 through level 5 of RAID functionality. 10
(b) Explain virtual reality design considerations. 10
5. (a) Explain characteristics of voice Recognition and suggest application using voice Recognition. 10
(b) Explain RTP, RTCP, RSVP, RTSP and IP multicast. 10
6. (a) Explain the architecture of DSP. 10
(b) Explain different scheduling and policing mechanism in multimedia networking. 10
7. Write short notes on any **two** of the following :- 20
 - (a) Distributed multimedia system
 - (b) Multimedia system Design Methodology
 - (c) Video conferencing : Design issues.