

Con. 5167-09.

SP-6875

(3 Hours)

[Total Marks : 100

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.
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