

B.E sem 8 (Rev.)  
Comp & I.T.

Multimedia systems

10/12/08

Con. 5346-08.

RC-7670

(REVISED COURSE)

(3 Hours)

[Total Marks : 100

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

1. (a) Explain different multimedia application classes and suggest an application with shared workspaces and execution environment. 10  
(b) Explain MPEG compression in detail. 10
2. (a) Explain lossy and lossless compression techniques. 10  
(b) Explain human factors and design consideration related to virtual reality. 10
3. (a) Explain dedicated and time line based authoring system. 10  
(b) Explain RIFF DIBS file format and compare it with RIFF A VI file format. 10
4. (a) Describe the algorithm for CCITT group 3 standard. How does CCITT group 4 differ from CCITT group 3 ? 10  
(b) Explain the architecture of DSP. 10
5. (a) Explain in detail WORM read/write operations. 10  
(b) What is workflow in multimedia system ? Explain the workflow using diagram of document imaging. 10
6. (a) Explain different scheduling and policing mechanism in multimedia networking. 10  
(b) Explain aural metaphor. 5  
(c) Compare level 0 through level 5 RAID levels. 5
7. Write short notes :—
  - (a) Hypermedia messaging 5
  - (b) Distributed multimedia databases 5
  - (c) Multimedia application: its design issues. 5
  - (d) Multimedia architecture and telecommunication consideration. 5