

BE / C M P N I VIII (REV)

13 / 05 / 13

Multimedia systems
Design

113 : 1ST HALF-13 (q)-JP

Con. 8220-13.

(REVISED COURSE)

GS-3196

(3 Hours)

[Total Marks : 100

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

(2) Solve any **four** from the remaining **six** questions.

(3) Assume **suitable** data wherever **required**.

1. (a) What are the different types of workflow ? Suggest application of mail enabled workflow. 10
- (b) You are appointed as a Consultant to set up a multimedia laboratory in an Engineering institute. Give specification of components, configuration, connectivity, software etc. along with the assumption. 10
2. (a) Explain the printout technology. Hence explain the working of a Laser printer. 10
- (b) Explain JPEG compression in detail. 10
3. (a) Explain level 0 through level five of RAID functionality. 10
- (b) Explain WAVE file format. 10
4. (a) Explain working of Scanner and hence explain reasons for use of CCD by these scanner. 10
- (b) Describe the algorithm for CCITT Group 3 standard. How does CCITT Group differ from CCITT Group 3 ? 10
5. (a) Explain Authoring system and also explain different types of Authoring. 10
- (b) What are the components of Distributed multimedia system ? 10
6. (a) Explain ADPCM in speech coding scheme. 10
- (b) Explain MPEG-1 compression in detail. 10
7. Write short notes on following (any two) :— 20
 - (a) Knowledge based multimedia system
 - (b) MIDI communication protocol
 - (c) Video conferencing : Design issues.