

17/12/2011

Ind half-11-S.G. 69

B.E(CIT) Sem VII (Rev)

Multimedia Systems
(REVISED COURSE)

MP-5752

~~Library~~

Con.6651-11.

(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**.
(4) Figures to **right** indicate **full** marks.

1. (a) Explain need for quantization during transmission of audio. 20
(b) Define various objects used in multimedia systems.
(c) Explain the need for segmentation in processing the image databases.
(d) Write in brief about TV-trees.
2. (a) Explain how RTP with RTCP and RSVP are used for multimedia data transmission. 10
(b) Draw neat labeled diagram for a decoder and encoder of H-261. 10
3. (a) What is ISDN ? Explain Windows Telephony. 10
(b) Explain various software tools available for carrying out tasks in MMS. 10
4. (a) For the input string ABCABCBBCABAB use LZW compression algorithm to create codes. (Use Dictionary based coding). 10
(b) Compare between RIFF and TIFF file formats. 10
5. (a) Explain in detail about MPEG-4 and also compare between MPEG-2 and MPEG-7. 10
(b) Explain speech coding using ADPCM and write in detail about G-726. 10
6. (a) Explain essential design steps (design methodology) for multimedia system design with example. 10
(b) Explain about JPEG compression in detail 10
7. Write short notes on the following :— 20
 - (a) Multimedia Networking and Multiplexing Technologies.
 - (b) Adaptive Huffman Coding
 - (c) Multimedia authoring system
 - (d) Algorithm used for CCITT group 3 standards.