QP Code : **6214**

(3 Hours) [Total Marks : 80

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

(2) Attempt any **three** questions out of remaining **five** questions.

1. (a) Explain applications of multimedia for entertainment, education and health science?   5

(b) Compare RIFF & TIFF file formats.   5

(c) Explain the production process of multimedia applications, with an example.   5

(d) Explain Card and Page based Authoring tools with Examples?   5

2. (a) Discuss the use of text in multimedia. Explain the term Hypermedia and Hypertext?   10

(b) Consider an image of dimensions 640 × 480 and color depth of 16 bits. If this image is to be transmitted along a 56 kbps line from a Web server, calculate how long it would take before the entire image is visible on the screen?   10

3. (a) Explain different architectures for content organization in multimedia databases   10

(b) Explain and draw neat labelled diagram for encoder & decoder of H. 261.   10

4. (a) An MPEG-1 video has a frame sequence : IBBPBBPBBPBBI. Determine the size of GOP. Derive the transmission sequence of the frames?   10

(b) What is dictionary based compression? Show all the steps of LZW compression including dictionary formation for the text string "ABABAABA$ABAAC$AB".   10

5. (a) Explain speech coding using ADPCM.   10

(b) Explain media abstraction and query language.   10

6. Write short notes on   20

(a) JPEG Compression standard

(b) Multimedia over ATM networks

(c) IETF Multimedia Standards

(d) Main aspects of the MIDI specifications

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