BCA/D-21   **1207**

MULTIMEDIA TOOLS

Paper : BCA-356

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *five* question in all. Question Number 1 is compulsory. In addition to compulsory question, attempt four more questions, selecting *one* question from each unit.

Compulsory Question

1. (a) Describe the application of multimedia in education and commerce.

(b) What are the elements of graphics?

(c) What are features of multimedia tools?

(d) Explain the aspects of the digital audio video operation.

(4×4=16)

UNIT-I

2. (a) What is multimedia software? How to set up multimedia system configuration?   10

(b) Explain the authoring tools used in education fieid.   6

3. (a) Describe the features of hypermedia.   6

(b) Explain : VRML and Icon-based tool.   10

UNIT-II

4. (a) Explain different image file format. 8

(b) Explain YIQ and YUV color model in videos. 8

5. Describe various digital video standards. Whai is chroma sub-sampling and why is it important? 16

UNIT-III

6. (a) What is the use of audio file format? Explain MIDI. 8

(b) Why do we need to digitize sound? 8

7. Describe lossless predictive coding with block diagram. Also explain DPCM. 16

UNIT-IV

8. What are various video compression techniques? Explain any *two*. 16

9. Describe lossy and lossless compression. Write a short note on JPEG standard and JPEG mode. 16

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