

Roll No.

Total Pages : 2

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 field. 6
3. (a) Describe the features of hypermedia. 6
- (b) Explain : VRML and Icon-based tool. 10

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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. What 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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