

Roll No.

Total Pages : 03

BCA/D-20

1207

MULTIMEDIA TOOLS

BCA-356

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all. Q. No. **1** is compulsory.

In addition to compulsory question, attempt *four* more questions, selecting at least *one* question from each Unit.

1. (a) Describe the basic characteristics of requirements for selecting a multimedia authoring tool.
- (b) Describe the components of multimedia.
- (c) What are the multimedia supported audio format in android ?
- (d) State ADPCM. 4×4=16

Unit I

2. (a) Define multimedia authoring tools. How is it better than multimedia programming tools. 10
- (b) Differentiate hypermedia and multimedia. 6

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3. What are the hardware and software requirements for multimedia computer ? Explain the various multimedia applications. **16**

Unit II

4. (a) Distinguish between the following : **8**
(i) Image and graphics
(ii) Video and animation.
(b) Write a short note on Analog Video Standards :
PAL and SECA. **8**
5. Explain various color models in images and videos. **16**

Unit III

6. What is quantization in multimedia ? How to perform the transmission of audio ? Explain. **16**
7. (a) With a diagram show how MIDI instruments can be interfaced with a PC. **10**
(b) What is pulse code modulation ? **6**

Unit IV

8. Explain run-length coding and transform coding in detail. **16**

9. (a) Discuss in detail the JPEG compression scheme. **6**
- (b) Explain any *two* video compression techniques : **10**
- (i) H.261
 - (ii) H.263
 - (ii) MPEG.

