Roll No	
Printed Pages: 2	

1876

BCA/M-15

MULTIMEDIA TECHNOLOGY

Paper-BCA-365

Time allowed: 3 hours [Maximum marks: 80

Note: Attempt five questions in all. Q. No. 1 is compulsory. In addition to compulsory question, student will have to attempt four more questions selecting one question from each unit. All questions carry equal marks.

Compulsory Question

- 1. (a) What is the difference between LCD and TFT monitor?
 - (b) Write short note on Object-oriented authoring tool.
 - (c) Write short note on RGB colour Model.
 - (d) Write short note on Composite Video.
 - (e) Explain Nyquist Theorem.
 - (f) Write short note on Quantization.
 - (g) Write short note on Run Length coding.
 - (h) Explain various JPGEG standards.

UNIT-I

- 2. (a) What is Multimedia? Explain various applications of multimedia.
 - (b) What are the differences between Multimedia and Hypermedia?
- 3. (a) What are the features of Authoring tools? Explain Icon based authoring tool.
 - (b) Explain various categories of Multimedia software tools.

UNIT-II

- 4. Explain the following:
 - (a) 1-bit images.

- (b) 8-bit grey-level image.
- (c) 24-bit colour image.
- 5. (a) What are the reasons for many file formats? Explain
 - (b) Write short notes on the following:
 - (i) NTSC
 - (ii) PAL
 - (iii) HDTV

UNIT-III

- 6. (a) Explain Pulse Code Modulation (PCM). What are the various steps to digitize an analog signal?
 - (b) Explain differential coding of audio by using any example.
- 7. (a) Write short note on Loseless predictive coding.
 - (b) Explain in detail Delta Modulation (DM) and Adaptive Differential Pulse Code Modulation (ADPCM).
- 8. What is variable length coding? Explain Shannon-Fano coding and Huffman coding with examples.
- 9. Explain the following:
 - (a) H.261 video compression algorithm .
 - (b) H.263 video compression standard.
 - (c) MPEG standards.