

Roll No.....

BCA-504

B.C. A. (Semester Fifth) Examination– 2011

Paper: Fourth

BASICS OF MULTIMEDIA

Time: Three Hours]

[Maximum Marks: 75

Note: Section A is compulsory. Attempt any seven questions from Section B and one question from Section C.

Section-A

1. Explain the concept of Multimedia. Write down the various applications of Multimedia. (6)
2. What do you understand by MIDI? How MIDI files are different from Digital audio? (6)
3. Explain different aspects of video signal representation. Explain the various layers of video data stream of MPEG. (6)

Section-B

4. What are the Hardware and Software requirements of multimedia Computer? Discuss the role of animation in multimedia. (6)

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5. What are the various audio file formats? Explain the simplest and most straight forward method of converting analog signal (speech) into digital signal PCM. (6)
6. Explain the following terms with respect to sound:
(a) Amplitude (b) Pitch (6)
7. How CD is different from DVD? Discuss about recent development in RAM Technologies.
8. Write short notes on:
(a) Dithering (b) Morphing (6)
9. What is the principle behind speech recognition? Write a note on silence compression. (6)
10. What do you understand by video conferences? How it is beneficial in the business work? (6)
11. Write short notes on: (6)
(a) Video splitter (b) MPEG
12. Discuss the use of text in multimedia. Explain the term Hypermedia and Hypertext. (6)
13. What is meant by a multimedia Presentation? What are the problems in multimedia Presentation? Explain. (6)

14. What is the role of multiple monitors in image processing? Discuss IPEG image compression in brief. (6)
15. What do you mean by scanner resolution? How does it affect the quality of digital image? (6)

Section-C

16. What is the principle of animation? What are the various animation techniques? Describe. (15)
17. Write short notes on (15)
- (a) Recent development in multimedia
 - (b) Compression ratio
 - (c) Bitmaps