

B.E. (Computer Engineering) Eighth Semester (C.B.S.)

Elective-IV : Multimedia System

P. Pages : 2

Time : Three Hours



NRT/KS/19/3717

Max. Marks : 80

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- Notes :
1. All questions carry marks as indicated.
 2. Solve Question 1 OR Questions No. 2.
 3. Solve Question 3 OR Questions No. 4.
 4. Solve Question 5 OR Questions No. 6.
 5. Solve Question 7 OR Questions No. 8.
 6. Solve Question 9 OR Questions No. 10.
 7. Solve Question 11 OR Questions No. 12.
 8. Assume suitable data whenever necessary.
 9. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Define multimedia. What are uses of multimedia. 7
- b) Explain multimedia architecture based on Interface bus and n/w architecture for multimedia system. 7

OR

2. a) Explain the application areas of multimedia. 7
- b) Explain multimedia. Explain the multimedia architecture in details. 7
3. a) What are different types of memory storage devices and communication devices used in multimedia. 7
- b) Explain card and page based authoring tools in details. 6

OR

4. a) Explain OCR software with its format. 7
- b) Define following terms:
- i) CD ROM. 2
 - ii) Interactive Multimedia. 2
 - iii) Hypermedia. 2
5. a) Explain the power of Hypertext. Also Explain Hypermedia structure. 7
- b) Explain different types of color model used in multimedia. 6

OR

6. a) List the Advantages and Disadvantages of MIDI and digital audio. 6
- b) What are symbols and Icons? Why are they treated as a text and not as graphic art? 7

7. a) Define Data compression. Explain different types of compression techniques and the need of data compression. 5
- b) Write short notes on:
- i) Binary Image compression. 3
 - ii) Full motion Video compression. 3
 - iii) Non-Lossy compression for image 3

OR

8. a) Explain MPEG and JPEG compression scheme. 7
- b) Explain the lossy compression method of JPEG encoding. 7
9. a) Explain popular file formats: RTF, RIFF, GIF, PNG, TIFF, MIDI, MPEG, JPEG, AVI. 13

OR

10. a) Explain multimedia skill set. How does it apply to multimedia project? 7
- b) Write notes on multimedia database. 6
11. a) What are different types of testing used in multimedia project? 7
- b) Write short notes on: **any two.**
- i) Bandwidth Bottleneck 3
 - ii) VRML 3
 - iii) Copyright 3

OR

12. a) Explain Role of MIME in details. 7
- b) Explain the following **any two.**
- i) Sound for web. 3
 - ii) Web page maker. 3
 - iii) Clickable Buttons 3
