13MCA543

Fifth Semester MCA Degree Examination, June/July 2018
Multimedia Systems

Time: 3 hrs.   Max. Marks:100

Note: *Answer any FIVE full questions.*

1   a. What is Multimedia Systems? Explain the various elements of Multimedia systems.
                                                                              (10 Marks)
    b. Elaborate in detail the various multimedia applications.   **(06 Marks)**
    c. What is the need of data compression in multimedia?   **(04 Marks)**

2   a. What is Audio Technology? Explain the terms of 3 – Dimensional Sound Projections.
                                                                              (10 Marks)
    b. Explain the various methods for Speech signals , Speech output and Speech input. **(10 Marks)**

3   a. What is Graphics and Image Processing? Explain with appropriate examples.   **(10 Marks)**
    b. Explain the concepts of Digital Television systems. What is Virtual Reality Modeling language?   **(10 Marks)**

4   a. Describe in detail about the basic compression techniques.   **(10 Marks)**
    b. Explain briefly various modes of MPEG and Fractal compression.   **(10 Marks)**

5   a. What is Optical Storage Media? Explain the various components of Video Disc and Compact disc.   **(10 Marks)**
    b. What are the major difference between CD – ROM and CD – ROM Extended Architecture?
                                                                              (10 Marks)

6   a. Explain in detail on Analysis of Individual Image.   **(10 Marks)**
    b. What is Audio Analysis and Applications in content analysis? Explain it. **(10 Marks)**

7   a. Explain in detail the various types of Rich – Text Format and TIFF File Format. **(10 Marks)**
    b. Describe in detail on Resource Image File Format and AVI Indeo File Format. **(10 Marks)**

8   Write short notes on the following :
    a. Types of Multimedia System.   **(05 Marks)**
    b. Components of Multimedia System.   **(05 Marks)**
    c. Multimedia Database.   **(05 Marks)**
    d. Virtual Reality design.   **(05 Marks)**

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