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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)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.