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13MCA543

Fifth Semester MCA Degree Examination, Dec.2017/Jan.2018
Multimedia Systems

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Describe in detail, the various multimedia elements. (10 Marks)
b. With neat diagram, explain the architecture of multimedia systems. (10 Marks)
- 2 a. Explain sampling rate and quantization with respect to sound representation on computer. (10 Marks)
b. Explain MIDI standard. (05 Marks)
c. Explain speech recognition. (05 Marks)
- 3 a. Explain in detail, the various steps involved in image recognition. (10 Marks)
b. List and explain various methods of controlling animation. (10 Marks)
- 4 a. Explain the major steps of data compression. (06 Marks)
b. Explain various coding modes in H.261 and H.263. (04 Marks)
c. Explain in detail, the Huffman coding algorithm. (10 Marks)
- 5 a. Explain the modes of CD-ROM. (10 Marks)
b. Discuss in detail. The basic technology behind optical storage, with diagram. (10 Marks)
- 6 a. Briefly explain analysis of image sequences. (10 Marks)
b. Discuss the important applications of content analysis. (10 Marks)
- 7 a. Define RIFF, RIFF chunk, LIST chunk, sub chunk. (10 Marks)
b. With neat diagram, explain the architecture of TWAIN. (10 Marks)
- 8 Write a note on the following :
a. Multimedia application classes
b. Virtual reality design
c. Multimedia databases
d. Application workflow design issues. (20 Marks)

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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.