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13MCA543

**Fifth Semester MCA Degree Examination, June/July 2017**  
**Multimedia Systems**

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions.*

- 1 a. Define multimedia. Explain briefly the various multimedia elements. (10 Marks)  
b. How do you characterize continuous media data streams? Discuss. (10 Marks)
- 2 a. Explain sound concatenation in time range. (05 Marks)  
b. Briefly list out the various technical terms used in relation with the speech output. (05 Marks)  
c. Explain speech recognition system with a neat diagram of its components. (10 Marks)
- 3 a. Explain image recognition procedure. (10 Marks)  
b. List and explain the methods of controlling animation. (10 Marks)
- 4 a. Explain Huffman coding with an example. (10 Marks)  
b. With a neat diagram, explain Lossy-sequencial DCT-based mode. (10 Marks)
- 5 a. Explain the image processing step in MPEG compression. (08 Marks)  
b. Define CDROM. With a neat diagram, explain CDROM data hierarchy. (12 Marks)
- 6 a. Elaborate on cut detection. (10 Marks)  
b. Write a short note on Text recognition. (10 Marks)
- 7 a. With a neat diagram, explain the architecture of TWAIN. (10 Marks)  
b. Compare and contrast TIFF file format with the RIFF file formats. (10 Marks)
- 8 a. Mention different types of workflow. Draw a workflow diagram for imaging application. (10 Marks)  
b. Explain the components of multimedia system. (10 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.