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Code No: 825AF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA V Semester Examinations, April/May - 2019
MULTIMEDIA AND RICH INTERNET APPLICATIONS

Time: 3 Hours   **Max. Marks: 75**

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit. Each
question carries 10 marks and may have a, b, c as sub questions.

PART - A
5 × 5 Marks = 25

1.a) Define multimedia and Hypermedia and rite the applications of multimedia.[5]
  b) Write about PAL and SECAM Video.   [5]
  c) Explain briefly three steps of video compression technique.   [5]
  d) Write the features of Adobe flash.   [5]
  e) Write about the features and applications of Dojo tool kit.   [5]

PART - B
5 × 10 Marks = 50

2.a) Explain various formats of images.
  b) Give a note on white point correction in images.   [5+5]
                                    OR
3.a) Explain CMY color model in images.
  b) Explain XYZ to RGB transformation with gamma correction.   [5+5]

4.a) Explain different types of video signals.
  b) Explain MIDI message structure in detail.   [5+5]
                                    OR
5.a) Write about Signal-to-Noise Ratio (SNR) and Signal-to-Quantization-Noise Ratio
     (SQNR).
  b) Explain Huffman coding algorithm.   [5+5]

6.a) Explain 2D-logarthemtic search for motion vector search.
  b) What is web 2.0? Explain the applications of web 2.0?   [5+5]
                                    OR
7.a) Explain the layers of bit stream of an MPEG-l video.
  b) Write notes on tagging.   [5+5]

8.a) Explain creation website splash screen Using Flash.
  b) Discuss any five Flash Action Script 3.0 functions.   [5+5]
                                    OR
9.a) Give the steps to design an advertise banner with masking using Flash.
  b) Explain the phases of event flow in Flex.   [5+5]

10.a) Explain Ajax web application structure.
   b) Explain XMLHTTP Request object properties.   [5+5]
                                    OR
11.a) What are the features of Ajax to create rich internet applications? Explain briefly.
   b) Design Ajax application to read data from server.   [5+5]