

R15**Code No: 825AF****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA V Semester Examinations, January - 2018****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) What is multimedia? Explain the components of multimedia? [5]
- b) Write the advantages and disadvantages of interleaved video. [5]
- c) Write the features of Web2.0. [5]
- d) Write the life cycle of Flex frame work. [5]
- e) Explain exception handling mechanism in AJAX. [5]

PART - B**5 × 10 Marks = 50**

2. Explain different types of color models in videos. [10]
- OR**
3. Write a note on
 - a) Image formation
 - b) Gamma correction.[5+5]
- 4.a) What is vector quantization? Explain it in detail.
- b) Compare Arithmetic and Huffman coding. [5+5]
- OR**
- 5.a) Explain JPEG encoder with a block diagram.
- b) Construct coding tree for "HAPPY NEW YEAR" using Shanonfano algorithm. [5+5]
- 6.a) Write the major differences between MPEG1 and H.261.
- b) Explain motion compensation in MPEG1. [5+5]
- OR**
7. What is Vocoder? Explain various types of Vcoders. [10]
- 8.a) How do you design Flex application, explain with an example.
- b) List the controls of flex and explain each control briefly. [5+5]
- OR**
- 9.a) Write the steps for creating title with text for a movie using Flash.
- b) Explain Flash Action Script 3.0 functions in detail. [5+5]
- 10.a) Compare traditional applications and AJAX applications with a neat diagram.
- b) Explain XML Http request objects. [5+5]

OR

11. Write an example AJAX code to communicate with server side application. [10]