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**Question Paper Code: 39411**

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

Elective

Electronics and Communication Engineering

01UEC911 - MULTIMEDIA COMPRESSION AND COMMUNICATION

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Define multimedia.
2. Give the advantages of graphics representation?
3. What are the components of MPEG audio scheme.
4. List the major features of H.263 standard.
5. Define source encoding.
6. Give some application of LZW.
7. Mention the major challenges involved in implementation of VoIP.
8. List the applications of VoIP in multimedia systems.
9. What are the limitations of best efforts service.
10. Define stream stored audio.

PART - B (5 x 16 = 80 Marks)

11. (a) Explain the various components of multimedia text, graphics in detail. Discuss the essential characteristics of text and graphics. (16)

Or

- (b) Describe with necessary diagram about video and explain its formats in detail. (16)

12. (a) Explain in detail about ADPCM with neat diagram. (16)

Or

- (b) Describe the MPEG 4 coding principles with neat diagrams of the encoder and decoder. (16)

13. (a) Explain in detail about static and dynamic Huffman coding with an examples. (16)

Or

- (b) Explain the procedure of arithmetic and LZW coding algorithms for a source with suitable example. Compare their codeword lengths. (16)

14. (a) Explain the network architecture of H.323 in detail with neat diagram. (16)

Or

- (b) Describe about the different CODEC methods in detail. (16)

15. (a) Give a detailed notes on multimedia protocols for real time interactive applications with an example. (16)

Or

- (b) (i) Give a brief note on integrated and differentiated services. (8)

- (ii) Explain the principle and applications of RSVP. (8)