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**Question Paper Code: 39048**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

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. Define SIP.
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) Outline the taxonomy of compression techniques for multimedia and briefly explain their salient features. (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) Explain the principle and applications of RSVP. (16)

Or

- (b) Explain in detail the scheduling and policing mechanism in multimedia networking. (16)

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