Reg. No. : | | | | | | | | | | | |

Question Paper Code : 71718

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2017.

Eighth Semester

Electronics and Communication Engineering

EC 6018 — MULTIMEDIA COMPRESSION AND COMMUNICATION

(Regulations 2013)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the multimedia components?
2. Define luminance.
3. Define Frequency Masking.
4. What is the principle of adaptive predictive coding?
5. Define Entropy encoding.
6. Define differential encoding.
7. What are the challenges involved in VoIP?
8. List the types of CODEC.
9. Define Packet Jitter.
10. What is meant by RSVP?

PART B — (5 × 16 = 80 marks)

11. (a) Explain the working principle of Digital Camera & scanner with neat block diagram.

Or

(b) Describe the procedural steps for creating 3D animation with neat sketches.

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12. (a) Explain DPCM & Three order predictive DPCM with block diagram.

Or

(b) Explain the different types of frames in video compression principles.

13. (a) Find Huffman codeword of the given text "AAAAAAAAAABBBBBCCCSS" by using static Huffman tree. Calculate Entropy & Derive the average number of bits per character for codeword?

Or

(b) Explain Lempel Ziv Welsh Compression.

14. (a) Explain in detail about the H.323 with the architecture.

Or

(b) Draw and Explain the VoIP network architecture.

15. (a) (i) Give a brief note on integrated and differential services.

(ii) Explain the principle and applications of RSVP.

Or

(b) Give a detail notes on Multimedia protocols for real time interactive applications with an example.

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