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Question Paper Code: 40945

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

 $(10\times2=20 \text{ Marks})$

- 1. List few multimedia components.
- 2. How can a composite video signal be demonstrated?
- 3. Elucidate Frequency Masking.
- 4. How can a pitch be defined?
- 5. Define Entropy encoding.
- 6. State dynamic Huffman coding.
- 7. State the role of RTP. Suggest few applications that uses RTP.
- 8. How does VOIP establish call?
- 9. What is network dimensioning?
- 10. Explain the scenario that creates packet jitter.

PART - B

 $(5\times16=80 \text{ Marks})$

11. a) Discuss in detail about the various hardware devices used for multimedia applications.

(OR)

b) With a neat diagram explain the working of Audio synthesizer.



(8)

12. a) Using a block representation explain DPCM compare it with PCM technique. (OR) b) With a neat diagram explain MPEG-4 and its Synchronization and delivery of streaming data. 13. a) State the following: i) Source encoders and destination decoders ii) Lossless and Lossy compression techniques iii) Entropy Encoding $(4 \times 4 = 16)$ iv) Source Encoding. (OR) b) Explain Lempel Ziv Welsh Compression with necessary example and its disadvantages. 14. a) In detail explain about the various challenges and issues involved in VOIP and its application. (OR) b) i) Explain H.323 system for call establishment purpose in detail. (8) ii) Analyse the fast connect procedure of H.323 with necessary diagrams. (8)(8) 15. a) i) Discuss about various RTCP packet types.

b) Identify the limitations of best effort services in making multimedia networking. Explain in detail.

(OR)

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ii) What does a RTCP packet types carry? Explain in detail.