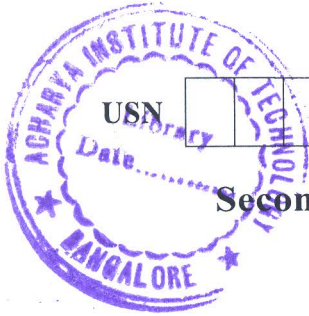


CBCS SCHEME

18ECS251



USN

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Second Semester M.Tech. Degree Examination, June/July 2019

Multimedia over Communication Links

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. List different types of multimedia networks. Explain any three networks in detail. (10 Marks)
- b. Discuss the different types of multimedia applications. (10 Marks)

OR

- 2 a. Explain the meaning of key QoS parameters associated with circuit switching and packet switching. (10 Marks)
- b. Explain the following terms:
 - i) Unformatted text
 - ii) Formatted text
 - iii) Hyper text(10 Marks)

Module-2

- 3 a. Discuss the PCM principles with signal encoding and decoding schematic. (10 Marks)
- b. With the help of a neat diagram, explain audio/sound synthesizer. (10 Marks)

OR

- 4 a. Mention the main features of a DMS. (04 Marks)
- b. With the help of a neat diagram, explain integrated management architecture for IP-Based Networks. (08 Marks)
- c. Explain the multimedia operating systems. (08 Marks)

Module-3

- 5 a. With the help of neat block diagram, explain digital audio signal processing. (06 Marks)
- b. Draw the block diagram of perceptual audio coder architecture. Explain in detail. (08 Marks)
- c. Discuss the concept of absolute threshold of hearing. (06 Marks)

OR

- 6 a. Explain the schematic representation of temporal masking properties of the human ear. (12 Marks)
- b. Explain the wavelet decompositions. (08 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-4

- 7 a. Explain the basic structure of the MPEG-1 audio encoder. (06 Marks)
b. Explain the basic DPCM/DCT encoder and decoder structure with a neat diagram. (08 Marks)
c. Explain the profiles and levels of MPEG-2 video. (06 Marks)

OR

- 8 a. Explain reference model for MPEG-2 DSM-CC. (06 Marks)
b. Discuss the MPEG-4 object based architecture. (08 Marks)
c. Explain system layer model of MPEG-4. (06 Marks)

Module-5

- 9 a. Discuss integrated packet networks. (06 Marks)
b. Explain the process of layered video coding. (06 Marks)
c. Explain the layer structure of a network based multimedia system. (08 Marks)

OR

- 10 a. With the help of a neat block diagram, explain the SRC. (08 Marks)
b. Discuss the multiplexing in ATM networks. (06 Marks)
c. Explain the video delay in ATM networks. (06 Marks)
