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Second Semester M.Tech. Degree Examination, June/July 2015
Multimedia Communication

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1
 - a. List and explain various multimedia multiplex and synchronization standards. (12 Marks)
 - b. What are the advantages of transportable computation? (04 Marks)
 - c. Write short notes on multimedia networking. (04 Marks)

- 2
 - a. Explain IETF standards. (08 Marks)
 - b. Explain in detail the ITU-T media COM 2004 framework for multimedia communication. (12 Marks)

- 3
 - a. Explain Global Information Infrastructure GII functional model. (06 Marks)
 - b. What are the user requirements for an MPEG – 21 multimedia framework? (06 Marks)
 - c. Explain digital item adaptation with a neat diagram. (08 Marks)

- 4
 - a. Describe IP cable com reverence architecture with a neat diagram. (08 Marks)
 - b. List and explain MPEG – 21 parts. (12 Marks)

- 5
 - a. What are the key drivers of mobile services? (04 Marks)
 - b. Explain the following in case of MPEG – 1 :
 - i) MPEG – K video
 - ii) MPEF, 1 audio. (10 Marks)
 - c. What are the challenges and obstacles in adapting mobile application? (06 Marks)

- 6
 - a. Write short notes on “
 - i) Lossless water marking
 - ii) Image watermarking. (10 Marks)
 - b. Explain with a diagram, fine granularity scalability encoder and decoder structure. (10 Marks)

- 7
 - a. Describe the protocols for streaming media. (10 Marks)
 - b. Explain End – to – End architecture for transporting MPEG – 4 video over the internet. (10 Marks)

- 8
 - a. Mention important principles to design generalized QoS framework. (10 Marks)
 - b. Describe the various steps in order for providing QoS. (10 Marks)