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14SCN21

Second Semester M.Tech. Degree Examination, Dec.2015/Jan.2016
Multimedia Communications

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain the roles of various MPEG standards in multimedia communications. (10 Marks)
b. Discuss the significance of multimedia conferencing in communications. (05 Marks)
c. Explain the functions of ATM technology in multimedia communications. (05 Marks)
- 2 a. How global information standards (GIT) are categorized? Illustrate the basic types of functions and logical interfaces in the GIT with a neat diagram. (12 Marks)
b. Explain IETF multimedia internet standards. (08 Marks)
- 3 a. Write notes on:
i) Digital item declaration
ii) Digital item adaptation (12 Marks)
b. What is the purpose of the standardization REL and RDD in the multimedia frame work? (08 Marks)
- 4 a. What are the parts of MPEG-4 standards? Explain the functionalities addressed by it. (08 Marks)
b. List and explain the major technologies that make mobile services a reality. (12 Marks)
- 5 a. Illustrate the importance of mobile services and discuss the key drivers for mobile services. (10 Marks)
b. Explain content adaptation process using universal multimedia access engine, with a diagram. (10 Marks)
- 6 a. Explain MEDIACOM 2004 middleware design with a neat diagram. (10 Marks)
b. Discuss the process involved in content representation and creation. (10 Marks)
- 7 a. List H.264/advanced video coding (AVC) applications for video content. (05 Marks)
b. Explain conditional access system architecture and its activities with a neat diagram. (10 Marks)
c. What are the services provided by RTCP? (05 Marks)
- 8 a. Summarize the various QoS specifications. (10 Marks)
b. Describe the fundamental QoS control mechanisms. (10 Marks)

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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