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Total No. of Questions: 09

B.Tech. (IT) (2011 Onwards Elective-III) (Sem. – 7, 8) MULTIMEDIA AND APPLICATIONS

M Code: 71991 Subject Code: BTCS-910 Paper ID: [A3059]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION A

- 1. a) Define Multimedia.
 - b) What is the difference between Hyper text and hypermedia? Illustrate with example.
 - c) Write the full form of SGML and MHEG.
 - d) What is the advantage of Nyquist's Sampling theorem.
 - e) What is the storage size required to store binary image of size 1024 x 1024.
 - f) What is MP3?
 - g) What is the significance of Run Length coding?
 - h) Why frequency Domain coding is useful?
 - i) Write the difference between BMP and PDF file formats?
 - j) Identify the Hardware requirements for deploying any multimedia application

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- 2. Explain the characteristics of a Multimedia system.
- 3. Define multimedia authoring tool? Explain briefly any two multimedia authoring tools.
- 4. Explain briefly the different components of a MIDI System.
- 5. Explain Huffman coding Algorithm by using suitable example.
- 6. Discuss about different Color Models.

SECTION C

- 7. Give the basic principle of video compression. Explain MPEG based video compression technique.
- 8. a) What is RAID and write its key benefits? Which levels of the RAID standards are used very frequently for Commercial systems and Why?
 - b) Discuss in detail the various CD standards used for storing multimedia data.
- 9. Write short note on following:
 - a) Distributed Multimedia systems
 - b) MHEG

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