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Total No. of Questions: 09 Total No. of Pages: 02

# B. Tech. (IT) (Sem. 7, 8) MULTIMEDIA AND APPLICATIONS 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. Write briefly:

- a) List any four desirable features of multimedia systems.
- b) What is the role of multimedia servers?
- c) Where do we use pattern substitution?
- d) Name the various multimedia authoring tools.
- e) What is the role of QoS in multimedia communication?
- f) How analog signal is different from digital signal?
- g) List the features of MPEG compression.
- h) Write the full forms of: JPEG, MIDI, TIFF and SGML.
- i) How multimedia plays a positive role to promote education?
- j) Give the names of various audio compression methods.

# **SECTION B**

- 2. Discuss the various challenges and applications of multimedia.
- **3.** Describe the various DVD standards. Also list its applications.

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- **4.** How can an audio be delivered over a network? Explain the whole process using well labeled diagram.
- **5.** What is the significance of MPEG video bitstream? How decoding the MPEG video in software is done?
- **6.** Write short notes on:
  - (a) Huffman Coding
- (b) Transform Coding

## **SECTION C**

- 7. How to insert the. Image and video in the multimedia system?
- **8.** Explain the various source coding techniques. Also mention their application areas.
- **9.** Give details of:
  - (a) GIF compression
- (b) Distributed multimedia systems

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