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

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

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 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) Define multimedia authoring tool. Write the name of any one multimedia authoring tool.
- b) What is the difference between Hyper text and hypermedia? Illustrate with example.
- c) Write full form of RAID. What is its objective?
- d) Write the name of any two Audio file formats.
- e) How video differs from image?
- f) Write the difference between I-frame and P-frame.
- g) How the sound is digitized?
- h) What is the full form of DVD and GIF?
- i) What is the storage size required to store a 32 shaded gray scale image of size 1024×1024?
- j) What are the applications of Multimedia?

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SECTION-B

- 2. Explain the desirable features of a Multimedia system.
- 3. Why optical media is preferred over Magnetic media for storing multimedia titles. Discuss in detail the various DVD standards used for storing Audio data.
- 4. Draw the block diagram of lossy image compression model. Explain the function of its different components.
- 5. Write the name of different image formats. Compare any two image file formats.
- 6. What is MIDI? Explain briefly the different components of a MIDI system.

SECTION-C

- 7. Explain in detail MPEG Audio Coder.
- 8. Why digital video is preferred over analog video? Explain H.261 Video compression model.
- 9. Write the short notes on:
 - a) Quality of Service in Multimedia communication systems.
 - b) SGML.

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