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Total No. of Pages :02

Total No. of Questions : 18

**B.Tech.(CSE)(2011 Onwards E-III) (Sem.-7,8)****MULTIMEDIA AND APPLICATION**

Subject Code : BTCS-910

Paper ID : [A2992]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION 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 has to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students has to attempt any **TWO** questions.

**SECTION-A****Answer briefly :**

1. Define multimedia. Write the name of multimedia software development tools.
2. What is the difference between hyper text and hypermedia?
3. Write full form of RAID. What is its objective?
4. Write the name of any two Video and Audio file formats.
5. How video differs from Frame?
6. Write the difference between I-frame and P-frame.
7. How the image is digitized?
8. What is the full form of CD and DVD?
9. Write the name of any three TV standards.
10. Why optical media is preferred over Magnetic media for storing multimedia titles?

### SECTION-B

11. Explain the characteristics of a Multimedia system.
12. Discuss in detail the various CD standards used for storing Audio data.
13. Draw the block diagram of lossless image compression model. Explain Huffman compression Algorithm.
14. Write the name of different image formats. Compare any two image file formats.
15. Explain briefly the different components of a MIDI system.

### SECTION-C

16. Explain in detail MPEG Audio Coder.
17. How video compression differs from image compression? Explain any one Video compression model.
18. Write short notes on :
  - a) Quality of Service in Multimedia communication systems.
  - b) ODA