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Total No. of Questions : 09

B.Tech.(IT) (2012 to 2017 E-III) (Sem.-7)

MULTIMEDIA AND APPLICATIONS

Subject Code : BTCS-910

M.Code : 71991

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 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. Write any four characteristics of multimedia systems.
 - b. Name the various multimedia software development tools.
 - c. What is the role of magnetic and optical media?
 - d. Give the names of various audio formats.
 - e. Where do we use run-length encoding?
 - f. Write the full forms of : PNG, DVD, RIFF and LZW.
 - g. How analog signal is different from digital signal?
 - h. What is the role of resource management in multimedia communication?
 - i. List the features of Intra frame coding in video compression.
 - j. How multimedia plays a positive role in teaching and learning?

SECTION-B

2. Differentiate between the various types of multimedia. Give suitable examples.
3. Discuss the various multimedia standards for document interchange. Also list its applications.
4. Under what circumstances do we use RAID? Explain its various levels with suitable examples.
5. Write the various steps of Lempel-Ziv-Welch (LZW) algorithm. Discuss the application areas where LZW algorithm is best suited.
6. Why do we have different color models? Explain any two of them in detail.

SECTION-C

7. What is MIDI sequence? How is it created?
8. Give details of :
 - a. Entropy Encoding
 - b. Differential Encoding
9. Discuss the role, need and application areas of distributed multimedia systems.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.