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Total No. of Pages: 02

Total No. of Questions: 07

**B.Sc. (CS) (Sem. – 6)**

**MULTIMEDIA**

**M Code: 72785**

**Subject Code: BCS-605**

**Date of Examination : 06-01-2023**

**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 **SIX** questions carrying **TEN** marks each and students have to attempt any **FOUR** questions.

**SECTION-A**

1. Explain briefly:
  - a) Differences between Frame Buffer and Refresh Buffer.
  - b) Multimedia Software development tools.
  - c) Differences between Digitization and Sampling.
  - d) Video Compression.
  - e) P-Frame Encoding.
  - f) Video Bitstream.
  - g) Explain different types of multimedia.
  - h) What are File Formats?
  - i) BMP stands for \_\_\_\_\_ ,PNG stands for \_\_\_\_\_.
  - j) Nyquist's Sampling Theorem.

## SECTION-B

2. a) List the differences between Intra Frame coding and Inter Frame Coding.  
b) Explain LZW Algorithm in detail.
3. a) Difference between Lossy and Lossless Compression.  
b) MPEG Audio Compression.
4. What do you mean by sound? Illustrate the concept of sound representation and its various formats in detail.
5. Illustrate the concept of storage media in detail. Explain DVD or Compact Disc and its standard details.
6. a) What do you mean by Multimedia servers. Explain.  
b) Explain MIDI in detail.
7. Explain the steps used to compress and decode MPEG Video bitstream in multimedia development tool.

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