

Roll No.

B. Tech.

(SEM. VIII) THEORY EXAMINATION, 2014-15 MULTIMEDIA SYSTEMS

Time: 3 Hours]

[Total Marks: 100

1 Attempt any four :

4×5=20

- Explain the term Multimedia. Discuss the role of the multimedia technology in the field of Business and Education.
- Explain Hypertexts and state various features of Hyper Text.
- (3) What are the hardware and software requirements for multimedia computer? Discuss the multimedia application in Business.
- (4) What are the various software tools for creating text for multimedia project?
- (5) Difference between:
 - (i) Interactive media and Hypermedia
 - (ii) Video and animation

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decompression including the dictionary formation

Consider the text string

 Ξ Attempt any two With the help of diagram show how a MIDI

 \mathfrak{S} What are the various audio files format used in multimedia? What are the various digital technique the MIDI files different from digital audio? instrument can be interfaced with PC? How does used in multimedia?

Э What are the major factors to be taken into account when considering Storage Requirements for Multimedia Systems'

Ξ Attempt any two

Message comprising seven different characters, A through G, are to be transmitted over a data of occurrence of each character is : link. Analysis has shown that the relative frequency

88 Probability | 0.05 | 0.20 | 0.07 | 0.32 | 0.01 | 0.10 | 0.25 Symbol A B C U Ħ H ଦ

Derive the entropy of the message

Use Huffman algorithm to derive a suitable set of codeword

The following is the probability distribution of symbols in the word "ARITHMETIC"

છ Probability Symbol 0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.2 Þ C E Ξ Z æ

 $\overline{\omega}$ "YESNOHUFTHUFTHUFYHUFYHUFYHK" Show all the steps of LZ78 compression and

Attempt any two

2×10=20

2×10=20

What do you mean by lossy compression and rate and sampling size slice compression? Also explain the terms sampling

Define the term Speech Compression. With help of the diagram explain the LPC Encoder and decoder process

 \mathfrak{D}

Explain in detail Lossless audio Methods

Attempt any two

2×10=20

What is the basic concept of Color and also explain the video capturing technique.

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Briefly explain why we need to be able to have to do to adaptively transform 24-bit color values makes for problem. Generally, what do we need to 8-bit once? less than 24-bit color and why this problem

What are some of animation file formats? What are the some of the advantages or key features of each of these formats?

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