

Printed Pages: 3

EEC069(A)/EIT082

| (Following Paper ID and Roll No. to be filled in your Answer Book) | | | | | | | | | | |
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| PAPER ID: 113852 | | | | | | | | | | |
| 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.
- (2) 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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Attempt any two:

 $2 \times 10 = 20$

With the help of diagram show how a MIDI the MIDI files different from digital audio? instrument can be interfaced with PC? How does

account when considering Storage Requirements What are the major factors to be taken into used in multimedia? for Multimedia Systems?

multimedia? What are the various digital technique

What are the various audio files format used in

(E)

Attempt any two:

2×10=20

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

BB Probability | 0.05 | 0.20 | 0.07 | 0.32 | 0.01 | 0.10 | 0.25 Symbol \triangleright ₩ C D Ħ Q

Derive the entropy of the message

Use Huffman algorithm to derive a suitable set of codeword

 \mathfrak{S} symbols in the word "ARITHMETIC" The following is the probability distribution of

Probability Symbol 0.1 A 0.1 C 0.1 H 0.1 H 0.2 0.1 Z 0.1 \mathbf{z} 0.2

 \odot Consider the text string Show all the steps of LZ78 compression and decompression including the dictionary formation "YESNOHUFTHUFTHUFYHUFYHUFYHK".

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Attempt any two

2×10=20

(1) 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 decoder process of the diagram explain the LPC Encoder and

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Explain in detail Lossless audio Methods

Attempt any two:

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2×10=20

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

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

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

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