6. Explain the following terms related to video No. of Printed Pages: 04 Roll No. compression principles: **BB65** Moving JPEG (a) Frame types (b) M.Tech. EXAMINATION, May 2019 Motion Estimation. 15 (Second Semester) Part D (B. Scheme) (Re-appear) (ECE) Discuss the current state of multimedia on the MTEC510B internet and tools for world wide web. 15 MULTIMEDIA COMMUNICATION Write short notes on any two of the following: Bandwidth Bottleneck (a) *Time* : 3 *Hours*] [Maximum Marks: 75 (b) **Nibbling** Before answering the question-paper candidates (c) JPEG Images should ensure that they have been supplied to correct (d) Search Engines. $7\frac{1}{2}, 7\frac{1}{2}$ and complete question-paper. No complaint, in this regard, will be entertained after the examination. Note: Attempt Five questions in all, selecting at least one question from each Part. All

100

M-BB65

http://www.dcrustonline.com

questions carry equal marks.

P.T.O.

(3-29/5) M-BB65

Part A

1. (a) What is Multimedia? What are its applications involving text, images, audio and video in interpersonal, interactive and entertainment?

(b) Explain ISDN.

2. (a) What are Digitization Principles?

- (b) Determine rate of sampler and bandwidth of bandlimiting filter in an encoder which is to be used for digitization of analog singal which has a bandwidth from 15 Hz to 10 kHz assuming the digital signal:
 - (i) is to be stored in memory of a computer
 - (ii) is to be transmitted over a channel which has a bandwidth 200 Hz to 3.4 kHz.

2

Part B

3. Explain:

(a) Run length encoding

(b) Differential encoding

(c) Static Huffman coding.

15

4. Explain:

(a) GIF

(b) TIFF

(c) Techniques of digitized documents and pictures. 15

Part C

5. (a) What is Linear Predictive Coding?

Compare it to code excited LPC. What are the three features which determine perception of sound?

9

b) What are Dolby Audio Coders?

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3

P.T.O.

6

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8