R	irstR	anker.	COM EIT-(	082/EEC-069	D(A)
(Follo	wing Pape	r ID aericom? Answer Boo	io. to be fi	lled in your	er.cor
Paper ID	: 113852	Roll N	о. <u>ПП</u>	ШП	五
		B.TECH.			
T	heory Exan	nination (Seme	ster-VIII)	2015-16	
	MU	ILTIMEDIAS	YSTEM		
Time : 3 H	lours		A	fax. Marks :	100
		Section-A			
_	-	rts. All parts part in short		al marks. W (2×10=	
(a)	What is hypermed	meant by the	e terms r	nultimedia	and
(b)	Discuss why lossy data compression is sometimes preferred over lossless.				
(c)	What is meant by the terms static media and dy- namic media? Give two examples of each type of media.				
(d)	Why file or data compression is necessary for multime- dia activities?				
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	51.		·		

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compare the comman state and MLEC

 $(10 \times 5 = 50)$ 

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relevance in this era of internet? Explain in brief. what is multimedia document architecture? What is its

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text compression technique. With the help of an example discuss Huffman coding as

3

Section-C

 Given the following string as input: ABRACADABRA with the Attempt any two questions from this section. algorithm, showing the intermediate steps initial dictionary below, encode the sequence with the LZW (15×2=30)

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...GTACCCGACACTTCCGTCCCCTTC... Assume that the frequencies of symbols in the rest of the sequence are the same as in this fragment. Estimate the probabilities of each symbol {A, G, T, C} and hence derive the Huffman code for each. Estimate the average number of bits per symbol required to encode the sequence using Huffman code under these circumstances.

- Q5. Write Short Note on:
  - Arithmetic encoding (a)
  - (b) Run length encoding
  - LZ and LZW (c)

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