Q.5

purpose.

Seat No.: __ Enrolment No.____

			A - SEMESTER-VI • EXAMINATION – SUMMER 2013		
Subject Code: 640007 Subject Name: Data Compression (DC2) Time: 10.30 am - 01.00 pm Instructions: Total Marks:					
					mstru
Q.1	(a)	(i) (ii) (iii) (iv) (v) (vi) (vii)	Name any two compression technique based on statistical model. Explain the term: sliding window in 'sliding window compression'. List any three performance measures of data compression. What do you mean by Prefix property of a code? Define 'static dictionary'? Write basic function of ADC and DAC. Name any three file formats using graphic compression.	07	
	(b)	(i) (ii)	List and explain the data items used in the token in LZ77 technique. Write an algorithm to build Shannon-Fano tree.	03	
				04	
Q.2	(a) (b)	_	in LZ77 encoding algorithm using string 'Gujarat Gaurav'. are LZ77 and LZSS techniques.	07 07	
			OR		
	(b)	Compa	are LZ77 and LZ78 techniques.	07	
Q.3	(a)	Explain two important factors affecting the quality of reproduction of audio 0 ′ waveform.			
	(b)	Write	a short note on lossless compression of sound.	07	
			OR		
Q.3	(a)				
	(b)	Write	a short note on silence compression of sound.	07	
Q.4	(a)	Descri	ibe the advantages of arithmetic coding over Huffman coding.	07	
ų.	(b)		in about differential modulation adaptive coding.	07	
	(2)	Lipiu	in acoust differential medication adaptive coding.	0.7	
			OR		
Q.4	(a)	_	in encoding of string 'world wide web' using LZW.	07	
Q.4	(b)	Expla graph	in the problems of using dictionary-based compression methods ics.	on 07	
Q.5	(a)		the use of DCT and IDCT in graphical compression.	07	
	(b)	Given	a matrix of pixels, how can one convert it into a DCT matrix?	07	

(a) Given a matrix of pixels, how can one convert it into a DCT matrix?

OR

(b) Discuss about reordering the DCT block in the zig-zag sequence with its 07

07

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