(3 Hours)

QP Code: 29786 [Total Marks: 100

N.B 1.Question No. 1 is compulsory.

	2. Attempt any four questions out of the remaining six questions			,
	1 a What are the various models used for data compression?	05		(2). (2). (3).
	b What are active and passive attacks?	05		04.3
	c What is Biometric authentication? Explain with examples.	05	2016)
	d What is the need for data compression?	05	29,000	
	2 a A source emits letter from an alphabet A={ a1, a2, a3, a4, a5 } with probabilities P(a1) = 0.15, P(a2) = 0.04, P(a3) = 0.26, P(a4) = 0.05 and P(a5)=0.50.	10 . RF	JEL 9.05:2016	
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	b Explain the working of DES.	10		
	3 a Show the difference in the encoding procedure of LZ78 and LZW with an example.	10		
* *	b How are keys distributed in conventional encryption systems?	10		
	4 a Discuss the various lossless techniques for image compression. b Explain Chinese Remainder Theorem with an example.	10 10	. 2	
	5 a How is motion compensation used in video compression?	10		
	b What are the various aspects of Firewall design?	10		
	6 a Discuss the differences in compression schemes of JPEG and JPEG 2000.	10		
	b What are digital signatures and how are they implemented?	10		
4	7. Write notes on [Any TMO]	20		
	7. Write notes on Any TVVO	20		
	a Elliptic Curve Cryptography			
	b MPEG Audio System			
	c ADPCM Encoder and Decoder			
	Jist x			
	JPEG 2000. b What are digital signatures and how are they implemented? 7. Write notes on [Any TWest a Elliptic Curve Cryptography b MPEG Audio System c ADPCM Encoder and Decoder GE-Con. 10742-16.		•	
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