17/12/15

Q.P. Code: 6193

		(3 Hours) [Total Marks :	80
N.B. :		 Question No.1 is compulsory Solve any three questions from remaining five questions. Assume suitable data wherever necessary with proper justification. 	
1.	(a) (b)	Distinguish between cryptography and steganography A source emits latters A $\{a_1, a_2, a_3, a_4\}$ with probabilities p $(a_1) = 0.5$ p $(a_2) = 0.15$ p $(a_3) = 0.25$ p $(a_4) = 0.10$ calculate the entropy of the source. Also find the huffman code with minimum variance. Define the chinese remainder theorem find the solution to the simultaneous equations.	20
	(1)	$x = 2 \mod 3$ $x = 3 \mod 5$ $x = 2 \mod 7$ The formulation theorem find the result of	
	(d)	Define fermat's little theorem find the result of (i) 3 ¹² mod 11 (ii) 3 ¹⁰ mod 11	
2.	(a) (b)	wab babrarbarracbac Give drawbacks of Lz-77 and Lz-78 assume window size 9 for Lz - 77.	20
3.	(a) (b)		20
4.	(a)	Explain attack on double DES with example write with neat black diagram triple DES with two keys.	20
	(b)	Write short note on AES	20
5.	(a) (b)		20
6.	W	(a) Ethical hacking (b) Attacks on RSA (c) JPEG - 2000 (d) Riometric Authentication	20