80 marks

N	ote:	1.	Question 1 is compulsory.	
		2.	Attempt any 3 questions out of the rest.	
		3.	Make suitable assumptions whenever necessary and justify them	10
		4.	Each question carries equal marks.	
Q1.				
a)	Use ti	he Pl	lay fair cipher with the keyword : "MEDICINE" to encipher	(5)
			ge "The greatest wealth is health".	(-)
b)			ey rings in PGP.	(5)
c)	Brief	ly de	fine idea behind RSA and also explain	(10)
	1)	W	hat is the one way function in this system?	
	2)		hat is the trap door in this?	
	3)		ve Public key and Private Key.	
	4)		escribe security in this system.	
O2)a) Evnlai	n DE	ES, detailing the Feistel structure and S-block design	(10)
100.00			Voter data management system in E-voting system with sensitive and	(10)
U	76		tive attributes.	(10)
			with sample queries how attacks (Direct, Inference)	
	20.000		ossible on such data sets	
		-	est 2 different ways to mitigate the problem.	
	-, ~	66		
Q 3)				0033787899
a			riffie-Hellman Key exchange algorithm with suitable example.	(10)
89			ain the problem of MIM attack in it	(10)
			Denial of Service attacks? Explain any three types of DOS detail	(10)
	attack	22 111	detail	
Q4)				
a			ers security at n/w layer. What is the need of SSL?	(10)
			ne services of SSL protocol?	(10)
b) What	are	the types of firewalls? How are firewalls different from IDS	(10)
O 5)a) What	are f	he various ways in which public key distribution is implemented.	(10)
V •)•			ne working of public key certificates clearly detailing the role	()
	2000		te authority.	
b) Why	are I	Digital Signatures & Digital certificates required? What is the significance	(10)
	of D	ual S	ignature.	
~ .		10		(20)
Q6	Atter	npt a	ny 4	(20)
A	a)	SF	HA-1	
1	b)		ming and Storage Covert Channel	
	c)		ession Hijacking and Spoofing	
	d)		owfish	
	f)	S/	MIME	
	2.5			

3 hrs.