80 marks

No	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 th	e Pl	ay fair cipher with the keyword : "MEDICINE" to encipher	(5)
,			ge "The greatest wealth is health".	(-)
b)			y rings in PGP.	(5)
c)	Briefly	y 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)	De	scribe security in this system.	
()2)a)	Explair	DE	S, detailing the Feistel structure and S-block design	(10)
			Voter data management system in E-voting system with sensitive and	(10)
٠,			ive attributes.	(,
			with sample queries how attacks ( Direct, Inference)	
	DC 02-15-10-10-10-10-10-10-10-10-10-10-10-10-10-		essible on such data sets	
			st 2 different ways to mitigate the problem.	
	5550	H.H.		
Q3)		_		(10)
a)			iffie-Hellman Key exchange algorithm with suitable example.	(10)
ı			ain the problem of MIM attack in it Denial of Service attacks? Explain any three types of DOS	(10)
	attack		TO A CONTROL OF THE C	(10)
	41144			
Q4)	TDG		The state of the s	(10)
a)			ers security at n/w layer. What is the need of SSL?	(10)
b)			the types of firewalls? How are firewalls different from IDS	(10)
U)	Wilat	arc	he types of mewans? How are mewans different from 105	(10)
Q 5)a	) What a	are t	he various ways in which public key distribution is implemented.	(10)
` ′ ′			e working of public key certificates clearly detailing the role	
		ALC: Y	te authority.	
b)		2000	Digital Signatures & Digital certificates required? What is the significance	(10)
	of Du	al S	ignature.	
Q6	Attem	nt a	nv 1	(20)
Qu	Atten	pi a	my T	(20)
1	a)	SF	IA-1	
	b)	Ti	ming and Storage Covert Channel	
	c)	Se	ssion Hijacking and Spoofing	
	d)	Bl	owfish	
	f)	S/	MIME	

3 hrs.