QP CODE: 515000

			al Marks: 80]
		N. B.: (1) Question number 1 is compulsary	
		(2) Attempt any 4 from question Nos. 2 to 7.	
		(3) Illustrate answers with sketches wherever necessary.	
1.	A]	What is Key Distribution Center? How does the key distribution were with multiple KDC domains?	k 10
	B]	What do you mean by Hash function? How will you define SHA1 and Explain message digest algorithm of MD5.	10
2.	A]	Define Network Security. What are the services and mechanisms provided by Network Security?	08
	B]	What is man in the middle attack? Alice and Bob establish a secret using Diffie – Hellman key exchange using g = 7, n = 13. Alice takes	
		as 3 & Bob takes y as 9. Tom an intruder selects x as 8 and y as 6. Show the working of the man-in-middle attack.	
3.	A]	What do you mean by IDEA algorithm and also explain the detail working principle of IDEA.	led 08
	B]	What are the algorithm modes uses for secret key cryptography?	07
4.	A]	What is password based authentication? How the authenticat mechanism works? Explain various problems associated was password based authentication. Suggest some solutions.	
	BJ	Explain how SET ensures a secure e - commerce transaction.	07
5.	A	Define Firewall. What are the types of Firewall? Explain in brief.	08
	B]	Explain RSA algorithm with a suitable example.	07
6.	A]	What is Kerberos? Explain the working procedure of Kerberos? Def Kerberos V5.	ine 08
	B]	What is a digital certificate? Explain the stepwise process of certificate generation?	ate 07
7.		Write short notes on: (any three) a) IPSec b) Integrity check c) PEM in E-mail Security d) Honey Pots	15