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QP CODE: 515000

			1arks: 80]
		N. B.: (1) Question number 1 is compulsory	
		(2) Attempt any 4 from question Nos. 2 to 7. (3) Illustrate answers with sketches wherever necessary.	
		(a) madrate districts with sketches wherever necessary.	
1.	(A)	What is Key Distribution Center? How does the key distribution work with multiple KDC domains?	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 key using Diffie – Hellman key exchange using g = 7, n = 13. Alice takes x 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. muadda.com	y 07
3.	A]	What do you mean by IDEA algorithm and also explain the detailed working principle of IDEA.	1 08
	B]	What are the algorithm modes uses for secret key cryptography?	07
4.	A]	What is password based authentication? How the authentication mechanism works? Explain various problems associated with password based authentication. Suggest some solutions.	
	B]	Explain how SET ensures a secure e - commerce transaction.	07
5.	A] B]	Define Firewall. What are the types of Firewall? Explain in brief. Explain RSA algorithm with a suitable example.	08 07
6.	A]	What is Kerberos? Explain the working procedure of Kerberos? Define Kerberos V5.	: 08
	B]	What is a digital certificate? Explain the stepwise process of certificate generation?	: 07
7.	J.	Write short notes on: (any three) muadda.com a) IPSec b) Integrity check c) PEM in E-mail Security d) Honey Pots	15