Duration: 3 Hours Total Marks: 80

Instructions to the candidates, if any:-

## **N.B.**: (1) Question No. 1 is compulsory.

## (2) Attempt any three questions out of remaining five questions.

Q. No.		Marks
Q.1 (a) Write short no	ote on eavesdropping.	(05)
(b) Define ARP Spoofing with example, Compare it with IP Spoofing.		(05)
(c) What is X.509 certificate? Describe the steps involved in its generations		(05)
(d) List and exp	lain various types of attacks on encrypted message.	(05)
Q.2 (a) Explain Trans	sposition Ciphers with illustrative Example.	(10)
(b) Explain Bloo	ck cipher modes of operation	(10)
Q.3 (a) Explain RSA	algorithm in details with suitable example.	(10)
(b) How is secur role of AH a	rity achieved in the transport and tunnel modes of ipsec? Describ	be the (10)
Q.4 (a) With a block	diagram describe MD5.	(10)
	beros Protocol in detail.	(10)
Q. 5 (a) Explain Diffie Hellman Key Exchange with suitable Example.		(10)
(b) Explain fire	wall and its types along with its advantages and disadvantages.	(10)
Q. 6 Write short note	s on (Any Four)	(20)
i) Symmetric	Vs Asymmetric encryption	
ii) Principle e	lement of NAC	
iii) SSL/TLS		
iv) Honeypot		
v) EI-Gamal	Algorithm	
vi) Playfair ci	pher	

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