

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 note on eavesdropping.	(05)
(b) Write short note on Stenography.	(05)
(c) Write a short note on Blowfish.	(05)
(d) List S/MIME services.	(05)
Q.2 (a) Explain Transposition Ciphers with illustrative Example.	(10)
(b) Compare and contrast DES and AES.	(10)
Q.3 (a) Perform encryption and decryption using RSA algorithm with $p=7, q=11, e=17$ and $M=8$.	(10)
(b) Describe the Block Cipher Modes in detail.	(10)
Q.4 (a) Explain Kerberos Protocol in detail.	(10)
(b) What Is PKI. Explain different PKI architectures in detail.	(10)
Q. 5 (a) Explain Diffie Hellman Key Exchange with suitable Example.	(10)
(b) Explain Needham-Schroeder protocol for secret key distribution with suitable diagram.	(10)
Q. 6 Write short notes on (Any Four)	(20)
i) HMAC vs CMAC	
ii) ARP Spoofing	
iii) Port Scanning	
iv) Honeypot	
v) El-Gamal Algorithm	
vi) Session Hijacking	