

(3 Hours)

Total Marks: 80

Note: 1) Question No.1 is compulsory.

2) Attempt any THREE from the remaining questions.

3) Figures to the right indicate full marks.

1. (a) Discuss various types of active attacks. 5
- (b) Differentiate between symmetric and asymmetric cryptography. 5
- (c) Explain SOAP web service. 5
- (d) Discuss the different firewall configuration. 5
2. (a) Discuss MAC. 10
- (b) Explain SSL along with its three protocol. 10
3. (a) Why digital certificates revoked? Explain how revocation status can be checked. 10
- (b) Discuss one round structure of DES. 10
4. (a) What is Rootkit? Explain Sony XCP rootkit. 10
- (b) Using the Euclidean algorithm, find the greatest common divisor of the following pairs: 10
 - a) 401 and 700
 - b) 1970 and 1066
5. (a) What is mutual authentication? Explain various ways of implementing the mutual authentication. 10
- (b) Given two prime number $P=17$ and $Q=29$. Find out N , E and D in an RSA encryption process. 10
6. (a) Explain PGP protocol. 10
- (b) Discuss the various approaches for intrusion detection. 10
