



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIFTH SEMESTER – NOVEMBER 2015

CA 5810 - NETWORK SECURITY

Date : 11/11/2015
Time : 09:00-12:00

Dept. No.

Max. : 100 Marks

PART-A

Answer ALL the questions.

10 x 2=20

1. Name the aspects of information security.
2. What are the four tasks performed by network security model?
3. Differentiate worms, viruses and Trojan horses.
4. What is reconnaissance? List the attacks.
5. Bring out the difference between block and stream ciphers.
6. Answer the following:
 - a) SSL provides security at IP level. State True (or) False.
 - b) _____relies on the technicalities of encryption methods unlike brute force.
7. Name the authentication techniques.
8. List the four stages in Rijndael's algorithm.
9. Compare and contrast SSL and IPSec.
10. What is a Bastion host?

PART - B

Answer ALL the questions.

5 x 8=40

11. a) Explain the security mechanisms.
(or)
 - b) Describe DoS attack.
12. a) Give explanation on terms coined to describe people causing security threat.
(or)
 - b) Explain configuration and technology weakness.
13. a) Describe vigenere cipher with example.
(or)
 - b) Give an explanation on one symmetric block cipher that takes 64-bit block as input.
14. a) Explain Secure Hash Algorithm that produces 512-bit message digest.
(or)
 - b) Give a brief description on modes of operation of block cipher.
15. a) Elucidate IPSec Protocols.
(or)
 - b) Explain VPN architecture.

PART- C

Answer ANY TWO questions.

2 x 20 = 40

16. a) Give explanation on categories of security services. **(10)**
b) Enumerate and explain malicious codes **(10)**
17. Explain the following:
a) Caesar Cipher **(10)**
b) MACs. **(10)**
18. a) Describe the following:
a) Complex configurations of firewall. **(10)**
b) PKIX. **(10)**
