



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIFTH SEMESTER – APRIL 2016

CA 5810 - NETWORK SECURITY

Date: 29-04-2016
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART-A

Answer ALL the questions

10 x 2=20

- 1) Differentiate threats and attacks.
- 2) What is access control and encipherment?
- 3) Bring out the difference between attacks, threats and vulnerabilities.
- 4) Distinguish between white, black and grey hat.
- 5) What is transposition cipher? Give example.
- 6) Is steganography an encryption technique? Justify.
- 7) Expand and differentiate HMAC and CMAC.
- 8) Which stream cipher and security protocol has been planned to be dropped by Google over time?
- 9) Mention the limitations of firewall.
- 10) Name the parameters of security associations.

PART - B

Answer ALL the questions

5 x 8=40

- 11) a) Explain the security services.
(or)
b) Enumerate and explain security attacks.
- 12) a) Explain port redirection and trust exploitation.
(or)
b) Give a brief description on any two vulnerabilities.
- 13) a) Describe play fair cipher with example.
(or)
b) Describe one symmetric block cipher that takes 128-bit block as input.
- 14) a) Explain CBC and CTR modes.
(or)
b) Elucidate the architecture of PKIX.
- 15) a) Describe any two types of firewall.
(or)
b) Explain remote access VPN.

PART- C

Answer ANY TWO questions

2 x 10 = 20

16) a) Give explanation on model for network access security. **(10)**

b) Describe DoS attack **(10)**

17) Explain the following:

a) Polyalphabetic cipher. **(10)**

b) Distribution of public keys **(10)**

18) a) Elucidate the following:

a) Types of DEA. **(15)**

b) AH and ESP. **(5)**
