



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIFTH SEMESTER – NOVEMBER 2016

CA 5810 - NETWORK SECURITY

Date: 09-11-2016
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART-A

10 x 2=20

Answer ALL the questions.

- 1) What are the two kinds of threats programs can present?
- 2) Answer the following:
 - a) NIST provides recommendations as FIPS. State True (or) False.
 - b) From the options given below choose a gatekeeper function.
 - i) Data integrity ii) Screening logic iii) Non-repudiation iv) Notarization
- 3) What is a packet sniffer?
- 4) What is ping of death?
- 5) Name the substitution ciphers.
- 6) What is SSL?
- 7) Avalanche effect is the key desirable property of encryption algorithm - Justify.
- 8) Compare and contrast MAC and Hash.
- 9) Name the databases of Security Associations in IPsec.
- 10) What is OAKLEY?

PART - B

5 x 8=40

Answer ALL the questions.

- 11) a) Explain data confidentiality, data integrity and nonrepudiation.

(or)

b) Describe password and trust exploitation attack.
- 12) a) Give explanation on Reconnaissance attack.

(or)

b) Explain the five phases in virus and worm attack.
- 13) a) Describe Caesar cipher with example.

(or)

b) Give an explanation on 3DES.
- 14) a) Explain distribution of public keys.

(or)

b) Give a brief explanation one asymmetric block cipher.
- 15) a) Elucidate remote access and site-site VPN

(or)

b) Explain types of firewalls.

PART- C

2 x 10 = 20

Answer ANY TWO questions.

16) a) Give explanation on security mechanisms. (10)

b) Explain vulnerabilities (10)

17) Explain the following:

a) Dimensions of cryptography (5)

b) AES algorithm with neat diagrams. (15)

18) Describe the following:

a) Access attacks. (10)

b) IPsec Protocols. (10)
