



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A.DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIFTH SEMESTER – NOVEMBER 2018

CA 5810– NETWORK SECURITY

Date: 01-11-2018
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

PART-A

Answer ALL the questions:

10*2=20

- 1) What is RFC and X.800?
- 2) Name the specific security mechanisms.
- 3) List the classes of threats.
- 4) What is steganography?
- 5) Write a note on IPSec protocols.
- 6) What is avalanche effect?
- 7) Write down the block and key size of various block ciphers.
- 8) How are keys distributed?
- 9) List the limitations of firewalls.
- 10) What is AH and ESP?

PART-B

Answer ALL the questions:

5*8=40

- 11) a) Describe the security mechanisms.

(or)

b) Draw and describe the model for network security
- 12) a) Describe vulnerabilities

(or)

b) Explain threats and the terms used to refer people causing security threat.
- 13) a) Describe Fiestal structure.

(Or)

b) Draw and describe IPSec architecture.

14) a) Explain Hash Functions.

(or)

b)) Describe modes of operation of block cipher.

15) a) Describe OAKLEY and ISAKMP.

(or)

b) Explain VPN architecture.

PART-C

Answer any TWO questions.

2*20=40

16) a) Describe security services.

(10)

b) Explain Caesar cipher and polyalphabetic cipher.

(10)

17) a) Describe the working of AES algorithm.

(10)

b) Explain public key distribution methods.

(10)

18) Give detailed explanation on

a) PKI.

(10)

b) Types of firewalls.

(10)
