



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIFTH SEMESTER – NOVEMBER 2017

CA 5810 – NETWORK SECURITY

Date: 08-11-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART-A

Answer ALL the questions

10 x 2=20

- 1) How do IETF and ITU-T publish their recommendations?
- 2) What is non-repudiation?
- 3) Mention the different ways of making revenue out of finding vulnerabilities.
- 4) What is smurf attack?
- 5) Name the approaches to attacking conventional encryption scheme.
- 6) What is unconditional and computational security?
- 7) Compare and contrast Hash and MAC.
- 8) What is Kerberos?
- 9) Name the types of firewalls.
- 10) Mention the three subsets of packet filtering firewalls.

PART - B

Answer ALL the questions

5 x 8=40

- 11) a) Explain specific and pervasive mechanisms.
(or)
b) Give explanation on security attacks.
- 12) a) Explain Vulnerability.
(or)
b) Give a brief description on security threats.
- 13) a) Describe Caesar cipher.
(or)
b) Describe the types of cryptanalytic attacks.
- 14) a) Explain PKIX model with a diagram.
(or)
b) Elucidate SHA-512 with a neat diagram.
- 15) a) Explain ESP and AH protocols.
(or)
b) Describe Oakley and ISAKMP.

PART- C

Answer ANY TWO questions

2 x 20 = 40

- 16) a) Give explanation on X.800 security services.(10)
b) Describe reconnaissance attacks. (10)
- 17) Explain the following:
 - a) Playfair cipher.(10)
 - b) Authentication applications. (10)
- 18) Elucidate the following:
 - a) DES.(10)
 - b) IPSec logical architecture. (10)
