LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIFTHSEMESTER – APRIL 2017

CA 5810- NETWORK SECURITY

Date: 29-04-2017   Dept. No.   Max. : 100 Marks
Time: 01:00-04:00

PART-A

Answer ALL the questions   **10 x 2=20**

1) State the definition of security service as given in X.800.

2) What is OSI Security Architecture?

3) What is Reconnaissance attack?

4) Distinguish between spammer and phreaker.

5) Name the types of cryptanalytic attack.

6) Which protocol is the successor of SSL?

7) Answer the following:

   a) 3DES is a stream cipher. State True/ False.

   b) _____ is the public key cryptography used by Google's client certificates.

8) Mention the modes of operation of block ciphers.

9) What is AH and ESP?

10) Name the attacks on packet filter firewalls.

PART - B

Answer ALL the questions   **5 x 8=40**

11) a) Explain the security mechanisms.
                (or)
    b) Give explanation on model for network access security.

12) a) Explain classes of threats.
                (or)
    b) Give a brief description on any two access attacks.

13) a) Describe polyalphabetic cipher with example.
                (or)
    b) Describe IPsec architecture.

14) a) Explain RC4.
                (or)
    b) Elucidate Kerberos and X.509.

15) a) Explain types of firewalls.
                (or)
    b) Explain tunnel mode and transport mode VPN.

PART- C

Answer ANY TWO questions   **2 x 20 = 40**

16) a) Give explanation on active and passive attacks. (10)

    b) Describe distributed denial of service attack (10)

17) Explain the following:

    a) Play Fair Cipher (10)

    b) Fiestal structure for encryption and decryption.(10)

18) Elucidate the following:

    a) RSA. (15)

    b) IPsec key management protocols.(5)

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