S. No.: 370   BATCH: 2009-2013, 16   Reg. No.:

END OF SEMESTER EXAMINATIONS, APRIL / MAY - 2019
NETWORK SECURITY AND ADMINISTRATION
SUBJECT CODE: 12UACT16

MAJOR : B. Sc (CT)   SEMESTER : V
TIME : 3 HOURS   MAX. MARKS: 75

SECTION - A (5 X 2 = 10)

Answer ALL the questions:

1. What is meant by encryption and decryption?

2. How does the one time initialisation step up work in AES?

3. List out the SSL handshake protocol phases.

4. Define clear text password.

5. What is meant by packet filter in firewalls?

SECTION - B (5 X 4 = 20)

Answer ALL the questions:

6. a) Explain the principles of security.
   (OR)
   b) Describe about cryptography.

7. a) Define International Data Encryption Algorithm.
   (OR)
   b) Write short notes on Advanced Encryption Standards (AES).

8. a) Describe about Security in GSM.
   (OR)
   b) Discuss about Secure Hash Algorithm (SHA).

9. a) Define Kerberos.
   (OR)
   b) Describe about Single sign on approaches.

10. a) Explain Virtual Private Network.
    (OR)
    b) Define IP Security.

SECTION - C (3 X 15 = 45)

Answer any THREE questions:

11. Briefly explain in detail about substitution and transposition techniques in cryptography.

12. Discuss in detail about Data Encryption and Standard (DES).

13. Describe about Secure Electronic Transaction in detail.

14. Briefly explain in detail about authentication basics, passwords and authentication tokens.

15. Explain in detail about Firewalls with suitable example.

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