M.Sc. (Part–II) Semester—IV (CBCS Pattern) Examination

COMPUTER SCIENCE

Paper—4 MCS 3 (Network Security)

Time : Three Hours] [Maximum Marks : 80

N.B. :— (1) Illustrate your answers with the help of suitable examples/diagrams wherever necessary.
(2) Assume suitable data wherever necessary.

1. (A) Explain Legal issues of Cryptography. 6
   (B) State and explain different types of Network attacks. 8

OR

2. (A) Explain multilevel model of security. 8
   (B) Explain :—
   (i) Authorization
   (ii) Tempest. 6
3. (A) What is plaintext and Cipher text ? Explain breaking an encryption scheme in detail. 8
   (B) What is secret key cryptographic algorithm ? Explain. 6

OR

4. (A) What is public key cryptographic algorithm ? Explain. 6
   (B) Explain Advanced Encryption standard algorithm in detail. 8
5. (A) What is Trusted Intermediaries ? Explain. 7
   (B) What is address based authentication ? Explain. 6

OR

6. (A) What is Mediated Authentication ? Explain. 7
   (B) What is login-only security handshake pitfall ? Explain. 6
7. (A) What is ticket Lifetimes ? Explain. 7
   (B) Explain :—
   (i) Authentication Header
   (ii) Encapsulating Security Header. 6

OR

8. (A) What is IP and IPv6 ? Explain. 7
   (B) What is Kerberos ? Explain. 6
9. (A) What is pretty Good Privacy ? Explain. 6
   (B) How E-mail security can be achieved ? Explain. 7

OR

10. (A) Explain :—
    (i) Distribution list
    (ii) Message Integrity. 6
    (B) What is PEM ? Explain structure of PEM message. 7
11. (A) What is packet filter ? Explain. 7
    (B) What is role of cookies in tracking user ? Explain. 6

OR

12. (A) Explain security of Netware V4. 7
    (B) What is Web Security ? Explain. 6