Bachelor of Science (Information Technology) (I.T.) (Semester–V) Examination
NETWORK SECURITY
Paper—3

Time : Three Hours]   [Maximum Marks : 50

N.B. :— (1) **All** questions are compulsory and carry equal marks.

(2) Draw neat and labelled diagram wherever necessary.

1. **EITHER**

    (a) Explain RFC's Access Control Mechanisms.   5

    (b) Explain Passive and Active Attacks.   5

    OR

    (c) Describe model of Internetwork Security in detail.   5

    (d) Explain Security Services and Confidentiality.   5

2. **EITHER**

    (a) Explain Chinese Wall in detail.   5

    (b) Explain DES in detail.   5

    OR

    (c) Explain RSA with suitable example.   5

    (d) Explain Access Control Models.   5

3. **EITHER**

    (a) Explain IP encapsulating security protocol.   5

    (b) What is the role of secure hash and key management ? Explain with suitable example. 5

    OR

    (c) Explain Transport Layer Security in detail.   5

    (d) What is digital signature? Explain the role of it in Network Security.   5

4. **EITHER**

    (a) Explain packet filtering mechanism.   5

    (b) Discuss Network Security Applications.   5

    OR

    (c) Discuss SSL Encryption concept in detail.   5

    (d) Explain cryptographic authentication protocol.   5

5. (a) Explain ACL and capabilities.   2½

    (b) Explain symmetric ciphers.   2½

    (c) What is Network Security ? Explain.   2½

    (d) Write a note on 'Proxy Server.'   2½