

**Bachelor of Science (Information Technology) (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.

**EITHER**

1. (a) What are the types of threats over internet ? 5
- (b) Explain client authentication mechanism. 5

**OR**

- (c) What are the types of attacks over internet ? 5
- (d) Explain architectural model for internetwork security. 5
2. (a) Explain IDEA algorithm. 5
- (b) Explain RSA algorithm. 5

**OR**

- (c) Explain DES Algorithm. 5
- (d) Explain Access control model with example. 5

**EITHER**

3. (a) Explain Transport Layer Security. 5
- (b) What are internet security protocol ? 5

**OR**

- (c) Explain the process of key management. 5
- (d) Write a note on digital signature. 5

**EITHER**

4. (a) Explain SSL Encryption. 5
- (b) Explain packet filtering process. 5

**OR**

- (c) Explain authentication mechanism in smart card. 5
- (d) Explain cryptographic authentication protocol. 5

5. Attempt All :

- |   |    |
|---|----|
| (a) Write a note on confidentiality and internet. | 2½ |
| (b) What is public key and private key ?          | 2½ |
| (c) What is secure host ?                         | 2½ |
| (d) Explain Firewall proxy setting.               | 2½ |