

UNIT-IV

8. What is importance of Network Security Management ?
Explain SNMP architecture. [15]
9. Explain the following : [15]
- (a) Intruders
 - (b) Firewalls
 - (c) Configuration management

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Question Paper Code : 6496

B.C.A. (Semester-VI) Examination, 2018

(New Syllabus)

NETWORK SECURITY & MANAGEMENT

[First Paper]

[BCA-S-307]

Time : Three Hours]

[Maximum Marks : 100

Note : Answer five questions in all. Question no. 1 is compulsory. Besides this, attempt one question from each unit.

1. Answer the following questions : [4x10=40]

- (a) Explain Network Security and its importance.
- (b) Explain Information security and its importance.
- (c) What is Honey Pot ?
- (d) Define Cryptosystem.
- (e) What is difference between secret key algorithm and hashing algorithm.
- (f) How authentication service provided by Pretty Good Privacy ?

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[P.T.O.]

- (g) Explain Integrity.
- (h) What service must be confidentiality service rely upon to provide complete protection of information ?
- (i) Should only malicious events be considered as part of threat ?
- (j) What are the detection techniques for security ?

UNIT-I

- 2. (a) Define computer security and its importance. Justify that computer failure will have a critical impact on the organization. [7]
- (b) Explain various prevention techniques for network security. [8]
- 3. Explain cryptographic algorithms : [15]
 - (a) Secret key algorithm.
 - (b) Public key algorithm.
 - (c) Hashing algorithm.

UNIT-II

- 4. What is the purpose of public key infrastructure ? Explain following components of PKI : [15]
 - (a) Certificate authorities

- (b) Certificate holders
- (c) Clients
- (d) Repositories

- 5. How does PGP use the concept of trust ? Explain following services of PGP : [15]
 - (a) Authentication services
 - (b) Confidential services
 - (c) E-mail compatibility services

UNIT-III

- 6. (a) Write three practical applications of IP sec. [5]
- (b) Explain Payload length and sequence number in AH format [5]
- (c) Explain security parameter index and authentication data in ESP format. [5]
- 7. (a) Explain client-server architecture and its importance in web system. [5]
- (b) Explain importance of HTML and HTTP in web system. [5]
- (c) How integrity confidentiality and authentication help to secure the web system ? [5]