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## BT-6 / M-15

# NETWORK MANAGEMENT AND SECURITY Paper-CSE-306

18me allowed: 3 hours]

[Maximum marks: 100]

Note: Attempt five questions in all, selecting at least one question from each unit. All questions carry equal marks.

#### Unit-I

- Describe the following kind of attacks:
  - (a) Attacks threatening Confidentiality.
  - (b) Attacks threatening Availability.
  - (c) Attacks threatening Integrity.

What kind of mechanisms and techniques can be used to counter these attacks?

- 2. (a) Befine a cryptographic hash function and explain its use in security.
  - (b) What security services are provided by digital signature?

## Unit-II

- (a) Distinguish between Mandatory and Discretionary access control.
  - (b) What are the goals of Confidentiality model?

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- 4. (a) What kind of security policy is dealt by Chinese Wall model? Compare Bell-La Padula and Chinese Wall Models.
  - (b) What are the common security related programming problems?

## Unit-III

- 5. Describe how PGP and S/MIME can provide security services for E-mail.
- 6. Describe the following in the context of IPSec:
  - (a) Application of IPSec in transport and tunnel modes.
  - (b) Authentication and Confidentiality through IPSec.

## Unit-IV

- 7. Describe the vulnerability issues related to the Internet and the Transport layer protocols of TCP/IP model.
- 8. Describe the following in the context of Firewalls:
  - (a) Firewall characteristics.
  - (b) Types of Firewalls.