

Roll No. ....

Total Pages : 2

BT-8/M-24

48360

## CYBER SECURITY

Paper-OE-IT-402A

Time Allowed : 3 Hours]

[Maximum Marks : 75

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

### UNIT-I

1. (a) Explain the nature and scope of Cyber Crime. 5  
(b) Explain the following terms : 10
  - (i) Cyber Extortion.
  - (ii) Crime against drug trafficking.
2. What do you mean by Information Security and what is the need of Information Security ? 15

### UNIT-II

3. Illustrate different methods for unauthorized access to computers and explain in brief about Stalking and Obscenity in Internet. 15
4. Explain in brief the following terms : 15
  - (a) Spyware.
  - (b) DDOS attacks.

- (c) SQL Injection.                      (d) Buffer overflow.
- (e) Phishing attacks.

### UNIT-III

5. (a) Differentiate between Active and Passive attacks. 7½
- (b) What are the various Data security considerations ?  
Explain. 7½
6. Explain in detail Firewalls and Intrusion Detection system.  
Also, explain some hardware protection mechanisms. 15

### UNIT-IV

7. (a) What is the need of Computer Forensics Science ? 7½
- (b) Explain briefly the Digital forensics lifecycle. 7½
8. What are the Legal perspectives of Cybercrimes and  
Cyber Security and how Digital signature helps in Cyber  
Security ? 15