

67245

MCA-5th Semester current scheme with new notes  
maximum marks scheme 80 Examination,

December-2015

COMPUTER SECURITY

Paper-MCA-505

Time allowed : 3 hours]

[Maximum marks : 80

Note : Question No. 1 is compulsory. Attempt four more questions selecting one from each unit. All questions carry equal marks.

1. Answer the following questions briefly :
  - (a) Define cryptography.
  - (b) List major advantages of encryption.
  - (c) What do you mean by secure E-mail.
  - (d) Define Data base security.
  - (e) Explain Intrusion detection systems in few lines.
  - (f) Describe sensitive data.
  - (g) What are computer crimes.
  - (h) Discuss security planning. 8×2=16

**Unit-I**

2.
  - (a) What is Computer security ? How is it useful and used ? Discuss with examples. 6
  - (b) Explain computer criminals and defense methods with suitable examples. 10
3. Explain the following briefly with suitable examples :
  - (i) Substitution Ciphers
  - (ii) Public Key Encryption. 8 each

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**Unit-II**

- 4. (a) Define file protection ? How is it useful ? Explain its mechanisms with suitable examples. 8
- (b) Discuss security policies with examples. 8
- 5. Describe the following with examples :
  - (i) Controls against program threats 8
  - (ii) Non-malicious program errors. 8 each

**Unit-III**

- 6. (a) What is Reliability ? How is it useful and used ? Explain with examples. 8
- (b) Discuss firewalls and its advantages with examples. 8

- 7. Explain the following with examples :

- (i) Threats in Network 8
- (ii) Network Security Controls 8 each

**Unit-IV**

- 8. (a) What is Physical security ? How is it used and useful ? Discuss with examples. 8
- (b) Explain risk analysis with suitable examples. 8
- 9. Explain the following briefly with examples :
  - (i) Software failures and its causes 8
  - (ii) Ethical issues in Computer security. 8 each



Students