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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

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
(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
(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
(ii) Ethical issues in Computer security. 8 each