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MCA 5th Semester (New) for full subject candidates Examination– December, 2013

Computer Security

Paper MCA-505

Time : 3 hours　　　　　　　　　**Max. Marks : 80**

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

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

UNIT – I

1. What is Encryption ? How to make good Encryption algorithm ? Explain DES and AES algorithm with example.　　　　　**16**

2. What do you understand by Cryptography ? What is a substitution cipher ? Explain various substitution techniques with example. 16

UNIT – II

3. What is a malicious program ? What are various targeted malicious codes ? Explain security methods in detail. 16

4. What is protection in general purpose operating system ? Explain object, method of protection and file protection mechanisms.

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UNIT – III

5. Explain the following :

(a) Database security 5

(b) Security requirements 5

(c) Reliability and sensitive data. 6

6. What is security in network ? Discuss in details the following :

   (a) Firewall 8

   (b) Intrusion detection and sensitive data. 8

UNIT – IV

7. Write on the following :

   (a) Organizational security policies. 5

   (b) Physical security and legal privacy. 5

   (c) Ethical issues in computer security. 6

8. What are rights of employees and employers ? What is software failures and computer crime ? Explain ethical issues in computer security.

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