

Roll No.

67245

**MCA 5th Semester Current Scheme
(with New Notes)
Examination – November, 2017**

COMPUTER SECURITY

Paper : MCA-505

Time : Three Hours]

[Maximum 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 examination.

Note : Question No. 1 is *compulsory*. Attempt *four* questions by selecting *one* question from each Unit. All questions carry equal marks.

1. (a) What is the principle of RSA algorithm ? $2 \times 8 = 16$
- (b) What are the main characteristics of AES ?
- (c) What are Cyber Laws ?
- (d) How are copyrights different from intellectual proprietary rights ?
- (e) What are the causes and effects of viruses ?
- (f) What are secure E-mails ?
- (g) What is the MOM concept in reference to attacks ?
- (h) Why people may be reluctant in using biometrics for authentication ? How this reluctance can be overcome ?

UNIT – I

2. (a) What characteristics would make an encryption absolutely unbreakable ? What characteristics would make an encryption impractical to break ? Explain. 8
- (b) How do you compare DES and AES ? Illustrate suitability of each standard. 8
3. What is computer security ? What are its goals and objectives ? How vulnerabilities, threats, attacks and control measures are inter-related ? Illustrate through a suitable example. 16

UNIT – II

4. (a) What are different security methods for an operating system ? Illustrate. 7
- (b) What are security models ? What is the purpose of these models ? Explain two popular models highlighting properties that characterize these models. 9
5. (a) What is program security ? What are important security concerns specific to programs ? Illustrate relevance of each. 8
- (b) What is trusted operating system ? What characterizes a good trusted operating system ? Explain. 8

UNIT – III

6. (a) What is security in networks ? What are threats in networks ? How can these be controlled ? Illustrate. 8

- (b) What are multilevel databases ? What is the purpose of encryption in a multilevel secure DBMS ? Discuss. 8

7. (a) What are various levels of protection that users might apply to code or data ? Illustrate. 8
- (b) What are IDSs ? What are its types ? What are their goals ? Discuss. 8

UNIT – IV

8. (a) What is a security plan ? What are the factors that should be considered when developing a security plan ? Discuss. 8
- (b) What are ethical issues in computer security ? Chart and explain the significance of each. 8
9. (a) What do you understand by protection for computer objects ? Compare Copyright, Patent and Trade Secret Protections. 8
- (b) What are organizational security policies ? Discuss their relevance in the current scenario. 8

<http://www.HaryanaPapers.com>

Whatsapp @ 9300930012

Your old paper & get 10/-

पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से