67245

M.C.A. 5th Sem. (with new notes) (Current Scheme)

Examination-December, 2014 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 question from each unit. All questions carry equal marks.

Unit-I

1. (a) How do you compare DES and AES?

Illustrate suitability of each standard.

- (b) What characteristics would make an encryption absolutely unbreakable?

 What characteristics would make an encryption impractical to break?

 Explain.
- 2. What do you mean by computer security?

 what are its goals and objectives? How

 vulnerabilities, threats, attacks and control

 measures are inter-related? Illustrate

 through a suitable example.

Unit-II

- 3. (a) What is program security? What are important security concerns specific to programs? Illustrate relevance of each.
 - (b) What is trusted operating system? What characterizes a good trusted operating system? Explain.

- 4. (a) What are security models? What is the purpose of these models? Explain two popular models highlighting properties that characterize these models.
 - (b) What are different security methods for an operating system? Illustrate.

Unit-III

- 5. (a) What are various levels of protection that users might apply to codes or data?

 Illustrate.
 - (b) What are IDSs? What are its types? What are their goals? Discuss.
- 6. (a) What is security in networks? What are threats in networks? How can these be controlled? Illustrate.
 - (b) What are multilevel databases? What is the purpose of encryption in a multilevel secure DBMS? Discuss.

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Unit-IV

- 7. (a) What do you understand by protection for computer objects? Compare copyright, patent and trade secret protections.
 - (b) What are organizational security policies? Discuss their relevance in the current scenario.
- 8. (a) What are ethical issues in computer security? Chart and explain the significance of each.
 - (a) What is security plan? What are the factors that should be considered when developing a security plan? Discuss.