

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

MCA (2015 Batch) (Sem.-3)
INFORMATION SECURITY

Subject Code : MCA-302

Paper ID : [74074]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.**
- 2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.**
- 3. Use of non-programmable scientific calculator is allowed.**

SECTION-A

1. What are threats? Explain the different categories of Threats.
2. Explain in detail about designing of security architecture with diagrams.

SECTION-B

3. What are the different means of User Authentication? How is it different from Authorization?
4.
 - a) What is need for Database Security in Database Management Systems?
 - b) What are the Principles for Access Control? Explain the Role - Based Access Control with example.

SECTION-C

5. Discuss Software Security in detail and the various software security issues.
6.
 - a) Differentiate between Viruses and Worms.
 - b) Differentiate between Payload - Attack agents and Payload - Information Theft.

SECTION-D

7. Illustrate the Concept of Trusted Computing Systems in detail.
8. Discuss the plan, procedures and implementation of IT Security Controls and Management in detail.

SECTION-E

9. Write briefly :

- a) What are the approaches used for implementing Information Security?
- b) What are Root kits?
- c) What is Encryption?
- d) What is Virtualization Security?
- e) Describe Hash Function with example.
- f) How to control access on Databases?
- g) What are Reflector and Amplifier Attacks?
- h) Define Man in the Middle.
- i) What is Distributed Denial of Service Attack?
- j) What do you mean by Stack Overflow?