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Total No. of Pages : 02

Total No. of Questions : 18

**MCA (2015 to 2018) (Sem.-3)****INFORMATION SECURITY****Subject Code : MCA-302****M.Code : 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.

**SECTION-A**

- 1) Discuss some computer security threats and how they can be prevented?
- 2) What is message authentication in cryptography? How hash functions are used in message authentication?

**SECTION-B**

- 3) Discuss advantages and disadvantages of token based authentication system?
- 4) Explain the need for database security? What are database access controls in dbms?

**SECTION-C**

- 5) What are the type of malicious software? How they harm the network system?
- 6) What are software related security issues? Write the steps to handle security issues?

**SECTION-D**

- 7) Explain the common criteria for Information technology security evaluation?
- 8) What is security risk assessment and how it works?



### SECTION-E

- 9) Discuss the importance of digital signatures?
- 10) Write in short about Iris Biometric system?
- 11) Define relational databases?
- 12) What is social engineering attack?
- 13) Give example of flooding attack?
- 14) What is safe programming coding?
- 15) Discuss Keylogger system?
- 16) Write a short note on windows security?
- 17) What are trusted systems?
- 18) What are worms in Information Security?

**NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.**