

Roll No. 2201X02607

3C3004

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MCA III - Sem. (Main / Back) Exam., - 2024  
MCA - 304 Information Security

Time: 3 Hours

Maximum Marks: 70  
Min. Passing Marks: 28*Instructions to Candidates:**Attempt all ten questions from Part A. All five questions from Part B and three questions out of five from Part C.**Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used /calculated must be stated clearly.**Use of following supporting material is permitted during examination.  
(Mentioned in form No. 205)*1. NIL2. NIL

[10×2=20]

**PART - A****(Answer should be given up to 25 words only)****All questions are compulsory**

- Q.1 List types of Attacks.
- Q.2 What is Cipher?
- Q.3 What is DES?
- Q.4 What is SHA?
- Q.5 What is Buffer overflow?
- Q.6 What is Trapdoors?

- Q.7 What is PGP?
- Q.8 What is Honeybots?
- Q.9 Define MDA.
- Q.10 Define Spoofing.

[5×4=20]

### PART – B

(Analytical/Problem solving questions)

Attempt all five questions

- Q.1 What is Digital Signature? Also define DSS.
- Q.2 What is symmetric & asymmetric cryptographic techniques? Explain.
- Q.3 Explain Block Cipher & Stream Cipher.
- Q.4 Explain ethical issues in Computer Security.
- Q.5 Describe various types of Firewalls.

[3×10=

### PART – C

(Descriptive/Analytical/Problem Solving/Design Questions)

Attempt any three questions

- Q.1 Explain Pretty Good Privacy in detail.
- Q.2 Describe Authentication & Confidentiality using -
  - (i) Message authentication code
  - (ii) Message digest or Hash.
- Q.3 Explain Steganography in detail.
- Q.4 Explain Triple DES & Birthday Attacks.
- Q.5 Explain followings -
  - (a) MD5 Algorithm
  - (b) Secure Hash Algorithm

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