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Roll No

MCADD-803

M.C.A. (Dual Degree/Integrated Course),

VIII Semester

Examination, May 2018

Network Security

Time : Three Hours

Maximum Marks : 70

- Note :** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Explain the terms Authentication, confidentiality, Integrity, Non-repudiation. Also give the difference between steganography and cryptography. 7
- b) Describe the model of Network Security. 7
2. a) Explain the following: 7
- i) Honey pots
- ii) Active attacks
- iii) System Integrity Verifiers
- iv) Sniffing and Snooping
- b) What are the key principles of security? What are various security mechanisms to achieve security goals? 7
3. a) What is Public key cryptography? Explain bring out the difference between conventional encryption and public key encryption. 7
- b) Explain the classes of message authentication functions. 7

4. a) What is digital signature? What are its requirements? Discuss arbitrated digital signature and direct digital signature. 7
- b) What do you understand by web security? What are various web security protocols? Explain any one. 7
5. a) Discuss the following: 7
 - i) E-mail Viruses
 - ii) Digital immune system
 - iii) Vulnerabilities
- b) What is Kerberos? What are the design requirements of Kerberos? How does Kerberos work? What are its applications? 7
6. a) What do you mean by firewall? When the system administrator trusts the internal users. What types of firewall is to be used? What are its advantages and disadvantages? 7
- b) Briefly describe the types of viruses. 7
7. a) Explain three classes of intruder. 7
- b) What do you mean by intrusion? Explain types of IDS detection techniques. 7
