Total No. of Questions: 71

[Total No. of Printed Pages: 2

Roll No

MCADD-803

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

Examination, May 2018

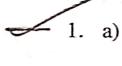
Network Security

Time: Three Hours



Maximum Marks: 70

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



Explain the terms Authentication, confidentiality, Integrity, Non-repudiation. Also give the difference between steganography and cryptography.



Describe the model of Network Security. b)



Explain the following:

7

- Honeypots i)
- ii) Active attacks
- iii) System Integrity Verifiers



iv) Sniffing and Snooping

What are the key principles of security? What are various security mechanisms to achieve security goals? 7



- What is Public key cryptography? Explain bring out the difference between conventional encryption and public key encryption.
- Explain the classes of message authentication functions.

4.	a)	What is digital signature? What are its requirements? Discuss arbitrated digital signature and direct digital signature.
	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?
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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?
	b)	Briefly describe the types of viruses. 7
7.	a)	Explain three classes of intruder.
	b)	What do you mean by intrusion? Explain types of IDS detection techniques.
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