Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER–V • EXAMINATION – WINTER • 2014

Subject Code: 650008 Date: 05-12-2014

Subject Name: Cyber Security and Forensics

Time: 10:30 am - 01:00 pm Total Marks: 70

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1 **(a)** Explain following terms : **07**

1. Identity Theft
2. Key Logger
3. Worms
4. Anonymizers
5. Backdoors
6. Salami Attack
7. Brute Force Hacking

(b) Answer the following :

1. Who are cyber criminals? List and explain their types. **04**
2. Write a note on Rijndael Algorithm **03**

Q.2 **(a)** What is computer virus? How computer viruses are categorized? Explain each. **07**

(b) What is Botnet? How do viruses get disseminated? Explain with diagram. **07**

OR

(b) What is social engineering? Explain each type of social engineering in detail. **07**

Q.3 **(a)** What kind of cybersecurity measures an organization should have to take in case of portable storage devices? Prepare security guidelines for organization. **07**

(b) What is DoS and DDoS attacks? List and explain types of DoS attacks. **07**

OR

Q.3 **(a)** What are the different phases of attacks on Network? **07**

(b) What is phishing? Explain the following phishing methods : **07**

1. Dragnet
2. Rod-and-Reel
3. Lobsterpot
4. Gillnet

Q.4 **(a)** What is buffer overflow? What are the types of buffer overflow technique? **07**

(b) Answer the following :

1. Explain LDAP and RAS security for mobile devices. **04**
2. Explain Vishing. **03**

OR

Q.4 **(a)** What kinds of attacks are possible on mobile/cell phones? Explain following Bluetooth hacking techniques : **07**

1. Bluejacking
2. Bluesnarfing
3. Bluebugging
4. Car Whisperer

(b) Answer the following :

1. What is Steganography? How it works? **04**
2. Explain Binary Rootkits. **03**

Q.5 **(a)** What is Digital Forensics? List and Explain phases evolved in Digital Forensics Life Cycle. **07**

	(b)	What are Active Attack and Passive Attack? State the difference between Active and Passive attack. Explain different tools for passive attacks.	**07**

OR

Q.5	**(a)**	What are the security and privacy threats and their solution for social networking sites? What are the challenges for the forensics for social networking sites?	**07**
	(b)	What are the weak areas of the ITA 2000? What amendments are introduced in ITA 2008?	**07**

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