Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER–V • EXAMINATION – SUMMER 2013

Subject Code: 650008 Date: 17-05-2013

Subject Name: Cyber Security and Forensics

Time: 02.30 pm - 05.00 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)** What is cybercrime? How do you define it? Give the classification of cybercrimes. **07**

(b) What is social engineering? Explain its classification. **07**

Q.2 **(a)** Explain the following terms: **07**

a. E-mail spoofing
b. Spamming
c. Salami attack
d. Forgery
e. Logical/Email bombing
f. Computer Sabotage
g. Pornographic offense

(b) What is cyberstalking? Explain the types of stalkers. How stalking works? **07**

OR

(b) 1) What safety measures should be taken while using computers in the cybercafé? **03**

2) Explain popular types of attacks against 3G mobile networks. **04**

Q.3 **(a)** 1) What is Bluetooth hacking? List and explain some of the common Bluetooth attacks. **04**

2) Highlights the operating guidelines for implementing mobile device security polices. **03**

(b) Explain the various measures for protection of the laptops through physical measures and logical access control measures. **07**

OR

Q.3 **(a)** 1) What is the difference between proxy server and an anonymizer? **03**

2) Classify the password cracking attacks. Explain. **04**

(b) What are the different components of wireless network? How can wireless networks be secured? **07**

Q.4 **(a)** What is the difference between Trojan Horses and Backdoors? How to protect from Trojan horse and **07**

Backdoors?

(b) What is Phishing? List and explain different techniques used by phishers to launch Phishing attacks. **07**

OR

Q.4 **(a)** Describe the strengths and limitations of the Indian ITA 2000. **07**

(b) 1) Is there a difference between computer security and computer forensics? Explain. **03**

2) Can a cyber crime investigation be done without involving a forensics expert? Explain with reasons. **04**

Q.5 **(a)** Explain the key steps to be performed in solving a computer forensics case. **07**

(b) 1) Explain the importance of "chain of custody" concept with example(s). **03**

2) What are the precautions to be taken when collecting Electronic Evidence? **04**

OR

Q.5 **(a)** Explain what is required in setting up a computer forensics laboratory. What tools are required on hardware and software side? **07**

(b) 1) Briefly describe the typical approach taken for iPhone data acquisition. **03**

2) What is a "Jailbroken" device? What are the security implications and possible impact on cyber crime? **04**

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