Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER– V EXAMINATION – SUMMER 2015

Subject code: 650008 **Date: 08/05/2015**

Subject Name: Cyber Security and Forensics

Time: 02:30 pm to 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)** 1) Explain the following terms: **03**

a. E-mail spoofing
b. Salami attack
c. Logical/Email bombing

2) How do you classify cybercrime? Explain any four in detail. **04**

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

Q.2 **(a)** 1) Explain the role of cybercafé in cybercrime. **03**

2) What is botnets? Explain how Botnets can be used as a fuel for cybercrime. **04**

(b) Explain cloud computing in brief. What are the various services provided in cloud computing? **07**

OR

(b) What are the different attacks launched with attack vector. Explain. **07**

Q.3 **(a)** What kinds of attacks are possible on mobile/cell phones? Explain with examples. **07**

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

OR

Q.3 **(a)** List and explain the categorization of computer viruses based on attacks on various elements of the system. **07**

(b) What are DoS and DDoS attacks? Give the classification of DoS attack. Write various measures to protect from being victim of DoS attack. **07**

Q.4 **(a)** 1) What is Blind SQL injection attack? Can it be prevented? Explain. **03**

2) What is the difference between steganography and cryptography? **04**

	(b)	What is SQL injection and what are the different countermeasures to prevent the attack? Explain.	**07**

OR

Q.4	**(a)**	List and explain different types of ID thefts.	**07**
	(b)	Do you think online child safety is an issue in India? Explain this by giving suitable examples.	**07**
Q.5	**(a)**	Explain how an E-Mail can be traced for forensics purpose. List out and describe various key steps involved.	**07**
	(b)	List and explain the phases involved in computer forensics/digital forensics	**07**

OR

Q.5	**(a)**	1) What is a ñJailbrokenò device? What are the security implications and possible impact on cyber crime?	**03**
		2) Explain the challenges faced by investigators when it comes to the forensics of digital camera and digital images.	**04**
	(b)	Explain what is required in setting up a computer forensics laboratory. What tools are required on hardware and software side?	**07**

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