

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
