

GUJARAT TECHNOLOGICAL UNIVERSITY**M.C.A.- SEMESTER – V • EXAMINATION – WINTER 2012****Subject code: 650008****Date: 28-12-2012****Subject Name: Cyber Security and Forensics (CSF)****Time: 10:30 am – 1:00 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)** Define the following terms : **07**
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|------------------|-----------------------|
| 1. Cybercrime | 2. Social Engineering |
| 3. Active Attack | 4. Trojan Horse |
| 5. Whaling | 6. Digital Forensics |
| 7. LDAP | |
- (b)** How do we classify cybercriminals? Explain cybercrime against organization briefly. **07**
- Q.2 (a)** What kinds of attacks are possible on mobile/cell phones? Explain each one briefly. **07**
- (b)** i. Explain how Botnets can be used as a fuel to cybercrime. **04**
 ii. Explain types of services provided by cloud computing. **03**
- OR**
- (b)** i. What is cyberstalking? What are the types of stalkers? Provide Example. **04**
 ii. Prepare security guidelines which can be implemented in an organization. **03**
- Q.3 (a)** Explain the various measures for protection of laptops through physical measures and logical access control measures. **07**
- (b)** What are the different phases during the attack on the network? **07**
- OR**
- Q.3 (a)** How Computer virus can be categorized? Explain each. **07**
- (b)** What is DoS attack? List and Explain classification and levels of DoS attack? **07**
- Q.4 (a)** i. What are the different methods of Phishing? **04**
 ii. What are Spam and Hoax E-Mails? **03**
- (b)** Under the Indian IT Act, is there a legal protection available for “personal data” or “sensitive personal data”? Explain how. **07**
- OR**
- Q.4 (a)** What is Identity Theft? What are types of Identity Theft? Explain each. **07**
- Q.4 (b)** i. Do “electronic records” have the admissibility into Indian Courts? Explain why. **04**
 ii. What is the meaning of “cyberlaw”? Explain the concept of “trust seal”. **03**
- Q.5 (a)** i. What is computer forensics? Explain how the “chain of custody” concept applies in computer/digital forensics. **04**
 ii. Explain why the NDA is important in a forensics investigation? List and explain Elements of forensics investigation contract. **03**
- (b)** What are the various phases and activities involved in the life cycle of a forensics investigation process? **07**
- OR**
- Q.5 (a)** i. What are rootkits? Why are they dangerous? How do rootkits help cyberattckers? **04**
 ii. Provide an overview of how “data mining” techniques can be applied in cyberforensics. **03**
- (b)** Explain forensics examination of PDAs and iPhones. **07**
