

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER –IV EXAMINATION –SUMMER-2019

Subject Code:3640011

Date: 28-05-2019

Subject Name: Cyber Security & Forensics

Time: 10.30 am to 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) i) Define Terms (ANY THREE) : **03**
 i) MOBILEdit ii) Chain of custody iii) Hacking iv) Phising

ii) Describe Digital Forensic Life Cycle. **04**

(b) Say TRUE or FALSE with justification. **07**

- i) Cyber defamation is not a cognizable offense.
- ii) Indian Information Technology Act(ITA) 2000 does not define cybercafes.
- iii) When you get a computer installed or use a mobile device for the first time, it is 100% secure.
- iv) Attackers are often very systematic in launching their attacks.
- v) The goal of DoS attack is to gain unauthorized access to system or data.
- vi) Any financial dishonesty that takes place in a computer environment is called Computer Crime.
- vii) Cyber criminals are always insiders.

Q.2 (a) Explain classifications of cyber crimes with example. **07**

(b) Define Attack Vector. Compare Active and Passive attacks. **07**

OR

(b) How Botnets are used as a fuel to cybercrime? How to ensure system against it. **07**

Q.3 (a) What is Identify Theft? Explain techniques and types of it. How to prevent it? **07**

(b) Distinguish between 07

- i) Keyloggers and Spywares
- ii) Virus and Worms

OR

Q.3 (a) Describe steps for SQL Injection attacks. How to prevent it? **07**

(b) Distinguish between

- i) DoS and DDos attacks
- ii) Trojan Horses and Backdoors

Q.4 (a) Discuss various reasons to have Cyberlaws in India. **07**

(b) Steganography is the art of Information hiding - Justify your answer by answering how and why? **07**

OR

0.4 (a) What is the Relevance of the OSI 7 Layer Model to Computer Forensics? **07**

(b) Describe the key challenges that exists with regard to the law and cyber crime scenario in India. **07**

Q.5 (a) Explain in brief Forensics Auditing and Antiforensics. **07**

(b) Design Organizational Guidelines on Cell Phone Forensics for IT Consulting firm. **07**

OR

Q.5 (a) List various available Tool kits for Hand-Held Device Forensics. Explain any two of them. **07**

(b) Compare Digital Forensics, Network Forensics and Computer Forensics. **07**
