

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER VIII - EXAMINATION –WINTER-2022

Subject Code: 4480608**Date: 21/12/2022****Subject Name: Cyber Security & 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)** Answer all the questions below. **07**
1. Who can be a Cyber criminal? List down their categories. [1]
 2. What is the functionality of an anonymizer? [1]
 3. Differentiate Steganography and Cryptography. [2]
 4. Define Spyware and keylogger. [1]
 5. What is backdoor attack? Give two examples of backdoor Trojans.[2]
- (b)** Define Cyber crime. What are the various types of Cyber crimes? Write about Cyber defamation, Pornographic offenses and Industrial espionage. **07**
- Q.2 (a)** What are the phases of cybercrime planning? Differentiate Passive and Active attacks. **07**
- (b)** Write a short note on mobile/cell phone attacks. **07**
- OR**
- (b)** What do you mean by Botnet? What are the various ways through which one can ensure for a secured system? Discuss. **07**
- Q.3 (a)** Define virus. How are they different from worms? Explain different types of viruses. **07**
- (b)** What is identity theft? Explain different types of ID theft. **07**
- OR**
- Q.3 (a)** What do you mean by Phishing? What are the common ways, techniques to launch Phishing attacks? Explain. **07**
- (b)** Describe Social engineering and its classification. **07**
- Q.4 (a)** Define digital forensics science. Explain the process model of Digital Forensics in the legal context. **07**
- (b)** What is the necessity of Cyber laws? Write about Indian IT Act and the few amendments in it. **07**
- OR**
- Q.4 (a)** Explain the steps taken by attackers for hacking networks with reference to OSI model. **07**
- (b)** Write short note on Forensics Auditing. **07**
- Q.5 (a)** List down and explain the security issues associated with social networking sites. **07**
- (b)** Write about printer and scanner Forensics. **07**
- OR**
- Q.5 (a)** Briefly discuss about toolkits for hand-held device forensics. **07**
- (b)** Explain the challenges in Forensics of digital images and still camera? **07**
