C. U. SHAH UNIVERSITY
Winter Examination-2019

Subject Name: Information Security

Subject Code: 4TE07ISE1   **Branch: B.Tech (IT)**

Semester : 7   **Date : 22/11/2019**   **Time : 10:30 To 01:30**   **Marks : 70**

Instructions:
    (1) Use of Programmable calculator & any other electronic instrument is prohibited.
    (2) Instructions written on main answer book are strictly to be obeyed.
    (3) Draw neat diagrams and figures (if necessary) at right places.
    (4) Assume suitable data if needed.

Q-1		**Attempt the following questions:**	**(14)**
	a)	What is Cyber Security?	**1**
	b)	What do you mean by identity theft?	**1**
	c)	What do you mean by Authorization?	**1**
	d)	Why Cyber Law is important?	**1**
	e)	What is Confidentiality?	**1**
	f)	What is Integrity?	**1**
	g)	What is Availability?	**1**
	h)	What is Worm?	**1**
	i)	What do you mean by Hacker?	**1**
	j)	What is Malware?	**1**
	k)	What do you mean by Cracker?	**1**
	l)	What is Web Threat?	**1**
	m)	What is Digital Forensic?	**1**
	n)	What do you mean by term "Exploits" in information security?	**1**

Attempt any four questions from Q-2 to Q-8

Q-2		**Attempt all questions**	**(14)**
	a)	What is Stack-Based Buffer Overflows? Explain in detail.	**7**
	b)	What is Virus? List and Explain types of Virus.	**7**
Q-3		**Attempt all questions**	**(14)**
	a)	What is Integer Overflow Vulnerabilities? Explain in detail.	**7**
	b)	How is SQL Injection harmful? Explain with example.	**7**
Q-4		**Attempt all questions**	**(14)**
	a)	Explain Public Key and Private Key Infrastructure.	**7**
	b)	What is Phishing Attack? How it can be harmful? Explain scenario that shows phishing attack.	**7**

Q-5   **Attempt all questions**   **(14)**
- **a)** What is spoofing? Explain types of spoofing.   **7**
- **b)** What is Repudiation attack? Explain with example.   **4**
- **c)** Explain Backdoor Exploits with example.   **3**

Q-6   **Attempt all questions**   **(14)**
- **a)** What do you mean by network hijacking? Explain how it can be harmful with example.   **4**
- **b)** What is data tampering? Give example and explain.   **3**
- **c)** What is Chain of Custody? Explain it with its importance.   **7**

Q-7   **Attempt all questions**   **(14)**
- **a)** What do you mean by Forensic Auditing in digital forensic? Explain its importance.   **4**
- **b)** What are challenges to Computer Forensics? Explain.   **3**
- **c)** What are challenges to IT Act 2008? Explain with examples.   **7**

Q-8   **Attempt all questions**   **(14)**
- **a)** What is Firewall? How does it work? List and explain types of firewalls in brief.   **7**
- **b)** What is IDS? How it is helpful? Explain types of IDS.   **7**