# KADI SARVA VISHWAVIDYALAYA
## B.E. Semester-VII Examination (March-2025)

SUBJECT CODE: CT702-N                    SUBJECT NAME: Cyber Security
DATE: 28/3/2025              TIME: 12:30 pm to 3:30 pm          TOTAL MARKS: 70

Instructions:
1. Answer each section in separate Answer Sheet.
2. Use of scientific Calculator is permitted.
3. All questions are compulsory.
4. Indicateclearly, the options you attempted along with its respective question number.
5. Use the last page of main supplementary for rough work.

## SECTION –1

| | | | |
|---|---|---|---|
| Q-1. | a) | What is Identity Theft? Discuss its countermeasures. | 5 |
| | b) | What is Email Spoofing, how does it work? | 5 |
| | c) | How we can identify and avoid Phishing attacks? | 5 |
| | | OR | |
| | c) | What are the common tactics used in Spear Phishing attack. | 5 |
| | | | |
| Q-2. | a) | What are the major security threats faced by e-commerce platforms. | 5 |
| | b) | Explain the importance of Digital Forensics in modern cybersecurity. | 5 |
| | | OR | |
| Q-2. | a) | What is digital forensics, and how does it differ from computer forensics? | 5 |
| | b) | What measures can be taken to prevent or reduce email spam? | 5 |
| | | | |
| Q-3. | a) | Explain different types of penetration testing Hackers. | 5 |
| | b) | Explain security threats and attacks in detail. | 5 |
| | | OR | |
| Q-3. | a) | What is Hacking? Discuss its preventive measures. | 5 |
| | b) | Explain how session hijacking work over insecure networks. | 5 |

**P.T.O**

## SECTION – 2

**Q-4.** **a)** Explain Indian IT Act 2000 for cyber security.  5

**b)** Compare the header structure of IPv4 and IPv6.  5

**c)** Explain primary functions of OpenSSH.  5

OR

**c)** Explain the role of public and private keys in OpenSSH Configuration.  5

**Q-5.** **a)** What is the difference between laws and ethics in the context of information security.  5

**b)** Discuss common pitfalls in implementing cybersecurity strategies.  5

OR

**Q-5.** **a)** What is cyber ethics and how does it influence online behavior?  5

**b)** Compare the challenges of securing traditional networks versus cloud environments.  5

**Q-6.** **a)** Explain difference between Host based IDS and Network based IDS.  5

**b)** What is privacy policing in cyber security? Explain role of Data protection officers in privacy policing.  5

OR

**Q-6.** **a)** Discuss features of Signature based IDS and Explain how does an Intrusion detection system differs from Intrusion prevention system.  5

**b)** Explain social engineering in detail. What are the consequences of data breaches on social media platforms?  5

******BEST OF LUCK******