# GUJARAT TECHNOLOGICAL UNIVERSITY
## BE - SEMESTER–V (NEW) EXAMINATION – WINTER 2021

Subject Code:3150714                                    Date:15/12/2021
Subject Name:Cyber Security
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.**
4. **Simple and non-programmable scientific calculators are allowed.**

|      |     |                                                                                                     | MARKS |
|------|-----|-----------------------------------------------------------------------------------------------------|-------|
| **Q.1** | **(a)** | Explain Vulnerability Scanning.                                                                   | 03 |
|      | **(b)** | Define the term in briefly:<br>(i) Open Port Identification        (ii) Banner Check              | 04 |
|      | **(c)** | Describe Network Sniffers and Injection Tool. Explain any two injection tools in brief.           | 07 |
| **Q.2** | **(a)** | Define Network Address Translation.                                                               | 03 |
|      | **(b)** | What is Probe. Explain its different types.                                                       | 04 |
|      | **(c)** | Differentiate between Packet Filter and Firewall.                                                 | 07 |
|      |     | **OR**                                                                                               |    |
|      | **(c)** | Differentiate between Stateless and Stateful Firewalls.                                           | 07 |
| **Q.3** | **(a)** | Define Snort.                                                                                     | 03 |
|      | **(b)** | What are the different usages of Network Sniffers? List out it.                                   | 04 |
|      | **(c)** | List out various Application Inspection tools. Explain any two.                                   | 07 |
|      |     | **OR**                                                                                               |    |
| **Q.3** | **(a)** | How do you protect Wireless Network?                                                              | 03 |
|      | **(b)** | What do you mean by Password cracking and brute force tools? Explain any one in brief.            | 04 |
|      | **(c)** | What are the different kinds of Web Vulnerabilities Tools available? Explain any two in brief.    | 07 |
| **Q.4** | **(a)** | Define Denial-of-Service.                                                                         | 03 |
|      | **(b)** | Justify the attack vector. List out different types of attack vector.                             | 04 |
|      | **(c)** | What is Firewall and illustrate its different types.                                              | 07 |
|      |     | **OR**                                                                                               |    |
| **Q.4** | **(a)** | Illustrate the aim and objective of Indian IT ACT 2000.                                           | 03 |
|      | **(b)** | List out different types of Traditional Problems Associated with Computer Crime.                  | 04 |
|      | **(c)** | What is Incident Response. Explain it process flow with appropriate diagram.                      | 07 |
| **Q.5** | **(a)** | Define the term: (i)Trojan Horse     (ii)Spyware                                                  | 03 |
|      | **(b)** | What is Destruction of Data. List out the different reason for it.                                | 04 |
|      | **(c)** | What are the Cyber-Crime Scenarios and explain its applicability for Legal Sections?             | 07 |
|      |     | **OR**                                                                                               |    |
| **Q.5** | **(a)** | What is Keyloggers? Explain different types of Keyloggers.                                        | 03 |
|      | **(b)** | Differentiate between Computer Viruses and Worms.                                                 | 04 |
|      | **(c)** | Define the Cyber Crime in your own word. Explain the different type of classification of Cyber Crime. | 07 |

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