

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAM**  
**IV B. Tech I Semester Advanced Supplementary Examinations March 2025**

**ETHICAL HACKING**

(CSE & IT)

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**

All Questions Carry Equal Marks

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**UNIT-I**

1. a) Illustrate various types of Hacking and phases of hacking? [7M]  
b) Discuss types of Penetration Tests and the Structure of Penetration Test Report. [7M]

(OR)

2. a) Describe in brief about n some virtualization software? [7M]  
b) Explain various steps in the installation of Kali LINUX. [7M]

**UNIT-II**

3. a) Distinguish between Active foot printing and Passive foot printing? [7M]  
b) Classify the different types of scans commonly used to detect vulnerabilities and assess network security? [7M]

(OR)

4. a) Explain flag scan using hPing3 with suitable examples. [7M]  
b) Illustrate the use of ping tool for foot printing? [7M]

**UNIT-III**

5. a) Elaborate on Trojan infection techniques? [7M]  
b) Discuss manual and automated password cracking. [7M]

(OR)

6. a) Differentiate amongst Trojan, virus, worm and attack? [7M]  
b) Interpret a short note on virus construction kit? [7M]

**UNIT-IV**

7. a) Describe in brief about various Types of Phishing Attacks. [7M]  
b) Explain in detail about some active sniffing techniques. [7M]

(OR)

8. a) Differentiate between human based social engineering and computer based social engineering. [7M]  
b) Illustrate the step by step procedure to be followed in session hijacking. [7M]

**UNIT-V**

9. a) Analyze the use of hash functions in cryptography and ethical hacking? [7M]  
b) Describe How does watermarking safeguard data? [7M]

(OR)

10. a) Elaborate the process of steganography with a neat sketch. [7M]  
b) Explain How Damn Vulnerable Web Application (DVWA) is installed and tested? [7M]

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