



**VIT**  
Vellore Institute of Technology  
(Deemed to be University under section 3 of UEA Act, 1947)

**SCHOOL OF COMPUTER SCIENCE & ENGINEERING**  
**Fall Semester 2024-2025**  
**Continuous Assessment Test - I**

**Programme Name & Branch:** B.Tech & BCI

**Course Name & code:** Penetration Testing and Vulnerability Assessment & BCSE319L **Slot:** C1

**Class Number (s):** VL2024250101447 & VL2024250101445

**Faculty Name (s) :** Dr. Prakash G & Dr. Siva Shanmugam G

**Exam Duration:** 90 Min.

**Maximum Marks:** 50

**General instruction(s):**

| Q.No. | Question                                                                                                                                                                                                    | Max Marks |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1 ✓   | Distinguish your understanding of Vulnerability analysis & Penetration testing. Also, narrate a short note on different stages of hacking.                                                                  | 10        |
| 2 ✓   | Name and specify the working characteristics of tools, which help to shape the misconfiguration and code flaws that pose the cyber threat. Also, describe various types of methodologies put into practice. | 10        |
| 3 ✓   | Discern competitor's capabilities and vulnerabilities through the analysis of open sources of data – How will you perform the context? In addition, compare traditional & contemporary approaches.          | 10        |
| 4 ✓   | Sketch out different social engineering attacks and their impacts on the victim's machine.                                                                                                                  | 10        |
| 5 ✓   | In which way does, the attacker understand the network and manage the security and operations of a targeted machine?                                                                                        | 10        |