

Register No: .....

Name: .....

**SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)**

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

**SECOND SEMESTER M.TECH DEGREE EXAMINATION(R,S), MAY 2024****M. Tech. Computer Science and Systems Engineering****(2021 SCHEME)****Course Code : 21SE206-B****Course Name : Cyber Security****Max. Marks : 60****Duration:3 Hours****PART A***(Answer all questions. Each question carries 3 marks)*

1. With an example explain Vulnerability probing.
2. Analyse the features of NETCAT and SOCAT.
3. Write short note on Snort.
4. Describe briefly Application Inspection tools.
5. List out two types of digital evidence with example.
6. Explain the key features of Cyberspace and Criminal Behaviour.
7. Elaborate on the recent Virus attack affect "Taj Hotel" and "AIIMS".
8. How does a backdoor vulnerability will lead to an attack?

**PART B***(Answer one full question from each module, each question carries 6 marks)***MODULE I**

9. Analyze Traffic probing with suitable example. Give an overview of Vulnerability Probe. 6

**OR**

10. Analyze any three Vulnerabilities Scanning mechanisms in detail. 6

**MODULE II**

11. Demonstrate the working of THC-Amap and System tools. 6

**OR**

12. Explain the working of Datapipe and Fpipe in detail. 6

**MODULE III**

13. Describe the working of Firewall in detail and detail the approaches for designing the filtering conditions. 6

**OR**

14. Write a note on different types of Firewall and how is it useful in protecting the network. 6

**MODULE IV**

15. Elaborate on the Brute Force Tools- John the Ripper and L0htcrack. 6

**OR**

16. Elaborate the HTTP utilities Curl, Open SSL and Stunnel. 6

**MODULE V**

17. Demonstrate the architecture and working of Incident Response Team. 6

**OR**

18. Define a Computer crime in detail with an example. How is it exponentially increased in the internet era ? 6

**MODULE VI**

19. Write a detailed note on Steganography. 6

**OR**

20. Elaborate on different type of Firewall. 6

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