

Register No.: ..... Name: .....

**SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)**

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

**SECOND SEMESTER MCA DEGREE EXAMINATION (R,S), MAY 2024****(2021 SCHEME)****Course Code: 21CA204-C****Course Name: Wireless Security and Vulnerability Testing****Max. Marks: 60****Duration: 3 Hours****PART A*****(Answer all questions. Each question carries 3 marks)***

1. Define Wireless LAN. List any two advantages of wireless LANs over wired LANs.
2. Differentiate ad-hoc networks and infrastructure-based networks.
3. What is meant by shoulder surfing?
4. What is password brute forcing?
5. Write short note on cracking WEP.
6. Explain WPA2 and WPA3 protocols.
7. What are the components of RFID system?
8. How can RFID tag be attached?
9. What is penetration testing?
10. Is bluetooth an IEEE standard? Explain.

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

11. a) Explain in detail about WAP architecture. (4)  
b) Write the components of wireless LAN. (2)

**OR**

12. a) Compare TCP/IP and WAP model. (4)  
b) What are access points in wireless networks? Give one example. (2)

**MODULE II**

13. a) What is wardriving? Explain. (3)  
b) Write short note on ARP spoofing. (3)

**OR**

14. a) Explain about evil twin attacks. (3)  
b) What is piggybacking? (3)

**MODULE III**

15. a) Give the steps to minimize the risks in a wireless network. (3)  
b) What is RC4 encryption? (3)

**OR**

16. a) Differentiate WEP and WPA security protocols. (3)  
b) Write short note on block ciphers. (3)

**MODULE IV**

17. a) What are DDoS attacks? (3)  
b) What are the different types of frequencies used in RFID? (3)

**OR**

18. a) What is hacking? (2)  
b) What are the various wireless hacking techniques? (4)

**MODULE V**

19. a) Explain about penetration testing tools available in wireless security. (4)  
b) Write short note on Wi-Fi. (2)

**OR**

20. a) Discuss about bluetooth security. (4)  
b) Give the significance of WiMAX technology. (2)

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