

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

## SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

**SECOND SEMESTER MCA DEGREE EXAMINATION (R), MAY 2023**

**(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. Explain the working of WAP protocol.
2. Compare wired LAN and wireless LAN.
3. What is password brute forcing? Give an example.
4. How do we protect computers from unauthorized access?
5. Compare stream ciphers and block ciphers with suitable examples.
6. How is authentication performed in WEP?
7. Explain the role of each element of an RFID system.
8. How are RFID tags attached?
9. What is penetration testing?
10. What is bluetooth snarfing?

### **PART B**

*(Answer one full question from each module, each question carries 6 marks)*

#### **MODULE I**

11. Describe the WLAN architecture with suitable diagram. (6)

**OR**

12. Explain the WAP protocol stack with the help of a diagram. (6)

#### **MODULE II**

13. Write short note on
- i. Wireless sniffing (6)
  - ii. Evil twin attacks

**OR**

14. Explain the risks in wireless network. (6)

**MODULE III**

15. Explain RC4 encryption process with an example. (6 )

**OR**

16. Describe the various wireless security protocols. (6 )

**MODULE IV**

17. What is hacking? Explain various wireless hacking techniques. (6 )

**OR**

18. With the help of block diagram, explain the various elements of an RFID system. (6 )

**MODULE V**

19. Explain the wireless intrusion detection systems (WIDS) in detail. (6 )

**OR**

20. Describe the penetration testing tools available in wireless security. (6 )

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