

Code No: R204105J

R20

SET - 1

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAM**  
**IV B. Tech I Semester Regular/Supplementary Examinations October 2025**  
**WIRELESS NETWORK SECURITY**

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) Explain history of Wireless Technologies in detail. [7M]  
b) Describe Wireless Threats: (i) Uncontrolled Terrain (ii) Communications Jamming. [7M]  
(OR)
2. a) Explain the terms DoS Jamming and Injections in detail. [7M]  
b) Analyze significance and history of Wireless Security? [7M]

**UNIT-II**

3. a) Explain OSI Model with neat diagram. [7M]  
b) Explain Wireless LAN Security Protocols and its applications. [7M]  
(OR)
4. a) Describe Secure Shell Protocols in detail. [7M]  
b) Explain the terms: SSH, WTLS, WEP, 802.1x. [7M]

**UNIT-III**

5. a) Describe Wireless Device Security Issues. [7M]  
b) Distinguish between FDMA and TDMA? [7M]  
(OR)
6. a) Explain Personal Digital Assistants (PDAS) in detail. [7M]  
b) Explain CDMA in detail. [7M]

**UNIT-IV**

7. a) Analyze Mobitex Security Architecture and Security Issues? [7M]  
b) Explain Cellular Digital Packet Data (CDPD). [7M]  
(OR)
8. a) Explain Infrared, Radio, Spread Spectrum. [7M]  
b) Explain Ultra-wide band Radio (UWB) and OFDM. [7M]

**UNIT-V**

9. a) Explain Wireless LAN's in detail. [7M]  
b) Explain Wireless Network Applications. [7M]  
(OR)
10. a) Explain Wireless IST Design in detail. [7M]  
b) Analyze Small Office/Home Office Design (SOHO)? [7M]

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