

UNIT-5 (QUESTIONS BANK)

1. Describe the role and significance of IEEE (Institute of Electrical and Electronics Engineers) standards in the field of networking and wireless communication.
2. Explain the concept of Push-to-Talk (PTT) technology and its traditional use in voice communication.
3. Trace the evolution of Wi-Fi technology from its inception to the latest IEEE 802.11 standards. Discuss the major advancements, changes, and their impact on wireless communication and daily life.
4. Describe the key challenges in designing energy-efficient WSNs.
5. Discuss the routing protocols and challenges in MANETs.
6. Explain the key features, improvements, and benefits it brings to wireless networks, including enhanced performance and efficiency.
7. Explain the key features of Wi-Fi technology and its evolution.
8. Discuss the role of scatternets in Bluetooth technology.
9. What are MANETs, and in what scenarios are they commonly used?
10. Discuss the benefits and deployment considerations of Fem to cells Network.
11. Explore the use of IEEE 802.15.4 standard in Wireless Sensor Networks (WSNs). Discuss the characteristics, advantages, and applications of WSNs in fields such as environmental monitoring and industrial automation.
12. Discuss how Fem to cells integrate with the IEEE 802.11 standards and their use in residential and business environments
13. Examine the role of Fem to cells in expanding wireless coverage and network capacity..
14. Define scatternets and their use in wireless communication networks.
15. Discuss the alternatives and features available for PTT in text-based messaging and modern communication applications
16. Provide an overview of the IEEE 802.15 working group and its standards, including IEEE 802.15.1 (Bluetooth), IEEE 802.15.4 (used in Zigbee and other technologies), and their applications in wireless communication.
17. Explain how IEEE standards contribute to interoperability and innovation in technology.
18. Compare PTT with traditional voice calls and text messaging.