

UNIT V

WIRELESS ARCHITECTURES AND IOT WIRELESS TECHNIQUES

PART A

1. What is WIMAX?
2. Why WiMax ?
3. What is IEEE 802.16?
4. What is LTE Advanced system?
5. Mention LTE Advanced key features.
6. What is 802.16e?
7. Mention the Features of 802.16m.
8. What is Mobility in 802.16e?
9. List the Advanced downlink/uplink MIMO.
10. What is Enhanced mobility?
11. Proliferate 5G to virtually all devices and use cases.
12. What is RFID?
13. What is IrDA ?
14. What is Near-field communication?
15. What is GPS?
16. What is Sigfox?
17. Define NB-IOT.
18. What is LoRaWAN? Explain two ways.
19. What is FOTA?

PART B

1. Explain Wi-max Architecture and its protocols.
2. Explain 4G LTE & LTE advanced
3. Describe IEEE 802.16e and IEEE 802.16m architecture and its protocols.
4. Explain 5G and Advances to short range communication
5. Explain
 - i) RFID
 - i) IrDA
 - iii)NFC
 - iv) GPS
 - v) Sigfox
 - vi) NB-IOT
6. Explain LoRA WAN Architecture and its protocols.
7. Explain LoRA WAN classes, terminology, frequency bands, addressing schemes, message frame format.
8. Explain Firmware Over the Air.