

UNIT-V ADVANCED TRANSCEIVER SCHEMES

PART A

1. Define spread spectrum technique.
2. What is multiple access?
3. List out the types of multiple access.
4. Define Power control in CDMA.
5. Why the second generation was developed?
6. What is multipath propagation?
7. Define multiplexing.
8. What is OFDM?
9. What are second generation are available?
10. Write advantages 2G over 1G.
11. What are services offered by GSM?
12. What is the function of NSS in GSM?
13. Define Abis Interface.
14. What is the function of VLR?
15. What are the basic channels available in GSM?
16. What is IS – 95?
17. Why we go for 3G?
18. What is IEEE 802.11 standard?
19. What is Bluetooth?
20. Define burst formatting in GSM.

PART-B

1. Explain spread spectrum systems with suitable examples.
2. Compare slow FH and fast FH scheme.
3. Explain about CDMA principle, power control
4. Discuss about effects of multipath propagation
5. Explain in detail the principle of OFDM
6. List out the benefits of cyclic prefix in OFDM
7. Detail notes about GSM – system overview, physical and logical channels.
8. Explain about AMPS with neat diagram.
9. Discuss about 3G standards – WCDMA/UMTS for wireless network.
10. Explain in detail the 1G, 2G, 3G generation systems & their standards.
11. Write a note on the Implementation of Transceivers
12. Explain forward & reverse channel parameters of IS-95 CDMA