

21. Explain the purpose of frequency allocation in mobile networks. 2 K2 CO2
22. Tell the functions of WML scripts in WAP applications. 2 K1 CO5

PART - C (6 × 11 = 66 Marks)

Answer ALL Questions

23. a) Analyze the advantages and applications of spread spectrum techniques in modern wireless systems. 11 K4 CO1

OR

- b) Examine various multiple access schemes and their suitability for mobile communication networks. 11 K4 CO1

24. a) Explain the architecture and functional blocks of a GSM system with a neat diagram. 11 K2 CO2

OR

- b) Illustrate the process of mobility management in cellular networks. 11 K2 CO2

25. a) Illustrate the operation of CSMA/CA protocol and its role in collision avoidance. 11 K2 CO3

OR

- b) Summarize the security mechanisms used in wireless LANs. 11 K2 CO3

26. a) Build the architecture and message flow of SIP in mobile communication. 11 K3 CO4

OR

- b) Apply the working principles of WSN routing protocols such as LEACH, SPIN, and PEGASIS. 11 K3 CO4

27. a) Outline the architecture of the Wireless Application Protocol (WAP) stack with neat diagram. 11 K2 CO5

OR

- b) Explain and design a WML-based mobile application for online ticket booking. 11 K2 CO5

28. a) Analyze the services provided by WTP and WSP layers. 11 K4 CO5

OR

- b) Examine the role of WAE and WTA in mobile Internet applications. 11 K4 CO5