

Mobile Communication (17657)

Question Bank

Chapter 3: Digital Cellular Mobile System

3 Marks

- 1) Draw architecture of IS-95. Give the function of IWF and DMH.
- 2) Explain SS7 performance services.
- 3) Compare GSM and IS-95.
- 4) List key features of IS-95 CDMA system.

4 Marks

- 5) Explain forward channel modulation process of IS-95.
- 6) Describe the processing of mobile originated call in GSM with diagram.
- 7) Describe SS7 architecture with diagram.
- 8) List and describe traffic channels provided in GSM.
- 9) State the function of following control channels.
 - a) PCH
 - b) AGCH

Chapter 4: Modern wireless communication systems

3 Marks

- 10) Describe the specifications of EDGE for 2.5G GSM and IS-136.
- 11) List the features of HSCSD 2.5G.
- 12) List the applications of IMT-2000.

4 Marks

- 13) Distinguish between GPRS standards with IS-95B w.r.t following
 - a) Backward compatibility
 - b) Channel bandwidth
 - c) Data rates
 - d) Number of voice channels
- 14) State the vision and specifications of IMT-2000.
- 15) Describe the advantages and disadvantages of 2G.

Chapter 5: Modern wireless networks

3 Marks

- 16) List specification and applications of Bluetooth.
- 17) Give the applications of MANET.
- 18) Give the comparison between Bluetooth and Wi-Fi.
- 19) State the features of WLL.
- 20) Give the advantages and disadvantages of LMDS.

4 Marks

- 21) List any four specifications of UMTS.
- 22) Give the limitations of wireless networks.
- 23) Describe the features and protocol layers of 3G-WCDMA.
- 24) Compare WCDMA and CDMA-2000.
- 25) Describe the operation of LMDS with neat diagram.