Chapter: 13 Modern Communication Systems

One mark questions (Knowledge)

- 1. What is cellular communication system?
- 2. What is meant by 'cell' related to mobile communication?
- 3. What is a call-handoff?
- 4. What is frequency reuse?
- 5. Expand MTSO.
- 6. Expand GSM.
- 7. Expand CDMA.
- 8. What is cell splitting?
- 9. What is Internet?
- 10. Expand ARPA.
- 11. Expand PDA.
- 12. Expand ISP.
- 13. What is a protocol?
- 14. Name the protocol used in Internet.
- 15. Define the World Wide Web (OR) what is WWW?
- 16. Expand URL.
- 17. What is a satellite?
- 18. What is transponder?
- 19. What is meant by optical fibre communication?
- 20. What is a communication satellite?
- 21. Define uplink signal.
- 22. Define downlink signal.
- 23. Define Wi-Fi.
- 24. What is Bluetooth?
- 25. What is a piconet?
- 26. Expand FHSS related to Bluetooth technology.
- 27. Expand FSK related to Bluetooth technology.
- 28. What is fiber optic cable?
- 29. What materials are commonly used for fiber optic cables?
- 30. Name the device which receives and transmits the signal from a satellite.
- 31. Expand RADAR.
- 32. What is RADAR?

One mark questions (Understanding)

- 1. Why adjacent cells are assigned different frequencies in mobile communication.
- 2. Why cells are in 'hexagon' shape during cell splitting?
- 3. Mention the frequency of uplink signal used in a C-band satcom system.
- 4. Mention the frequency of downlink signal used in a C-band satcom system.
- 5. Which band is preferred for the operation of Bluetooth devices?

Two marks questions (Knowledge)

- 1. State the different techniques used for improving capacity in cellular system.
- 2. Mention any two types of protocols used in computer networks.
- 3. What is a transponder and Mention its main function.
- 4. What are uplink and downlink signals in satellite communication?
- 5. Mention the important techniques used for Bluetooth operation.
- 6. What is ISP? Mention its role in computer networking.

Two marks questions (Understanding)

- 1. Explain what is meant by cell splitting.
- 2. Expand AMPS and TDMA.
- 3. Distinguish between uplink and downlink signals.
- 4. List the functions of a transponder.
- 5. If a transmitted signal takes 1ms to go up to the target and come back after reflection, how far from the radar the target is?
- 6. If a transmitted signal takes 1µs to go up to the target and come back after reflection, how far from the radar the target is?

Two marks questions (skill)

- 1. Draw the block diagram of a transponder.
- 2. Draw the block diagram of an optical fiber communication system.
- 3. Draw the block diagram of RADAR system.

Three marks questions (Knowledge)

- 1. Mention the advantages of cell phone systems.
- 2. Mention the uses of Internet.
- 3. Mention few applications of satellites.
- 4. Mention few applications of optical fiber communication.
- 5. Mention a few applications of Radar.
- 6. Give abroad classification of RADAR systems.
- 7. Mention the additional new features of the latest 3G and 4G cell phone systems compare to old 1G and 2G cell phones.

Three marks questions (Understanding)

- 1. Explain the principle of operation of Bluetooth.
- 2. Mention few applications of Bluetooth.
- 3. Give a comparison of Bluetooth and wi-fi.

Three marks questions (skill)

1. Draw the typical block diagram of Bluetooth system.

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