Question Bank (G scheme)

Name of subject: COMMUNICATION TECHNOLOGY Unit Test :II

Subject code: 17519 Course: IF

Semester: IV

CHAPTER 3- Digital Modulation Techniques (22 Marks)

3 Marks

1. Explain baseband and passband transmission.

- 2. State and explain working principle of ASK.
- 3. What is FSK? Explain it block diagram and waveform.
- 4. Draw block diagram of BPSK transmitter. State two advantages of it.

4 Marks

- 5. Draw and explain the working of DPSK generator.
- 6. Describe the generation of QPSK with the help of waveforms.
- 7. Define data rate, band rate, bit rate channel bandwidth and channel capacity.

CHAPTER 4- Data Encoding and Transmission (12 Marks)

3 Marks

- 8. How digital encoding differs from modulation? State two techniques.
- 9. Write the types of digital-to-digital encoding. How encoding differ from modulation?
- 10. Define data rate, band rate, bit rate channel bandwidth and channel capacity.

4 Marks

- 11. What is digital to digital conversion? State different types of polar encoding.
- 12. Explain the types of bipolar encoding.
- 13. Explain B8ZS and HDB3 encoding techniques with waveforms.

CHAPTER 5- WIRED & WIRELESS COMMUNICATION SYSTEMS (26 Marks)

3 Marks

- 14. What is multiplexing? State different types of multiplexing used.
- 15. Draw the block diagram and explain the working of FDM.
- 16. Describe the concept of WDM in brief.
- 17. Compare FDM and TDM.
- 18. Define orbits of satellite with sketch.
- 19. Define the elevation angle and angle of azimuth in satellite communication.
- 20. Describe telemetry and control sub-system of satellite.
- 21. What are uplink and downlink frequencies in a satellite system?
- 22. List the functions of satellite.

4 Marks

- 23. Explain frequency reuse concept used in cellular mobile communication.
- 24. Draw uplink and downlink model of satellite communication system.
- 25. Name and describe antenna used in satellite communication.
- 26. Describe the working principle of CDMA with diagram. Write its advantages and disadvantages.
- 27. Explain mobile communication with number of subscribers using MTSO and cell sets.
- 28. Draw and explain the block diagram of cellular mobile phone system.
- 29. Explain how cell splitting takes place in mobile communication with neat diagram.
- 30. Define hand off mechanism. List different types of hand-off and explain any one.