

Question Bank (G scheme)

Name of subject: PRINCIPALS OF COMMUNICATION SYSTEM

Unit Test :II

Subject code: 17472

Course : IE

Semester: IV

CHAPTER 4 Mobile Communication (12Marks)

3marks question

- 1.Explain cell splitting technique.
- 2.What is frequency reuse concept.
- 3.Describe block diagram of cellular telephone system.
- 4.Explain principle of cell sectoring.

4marks question

- 5.Explain Hand off mechanism.
- 6.Give call routing sequence for mobile to mobile.
- 7.Explain Co channel & adjacent channel interference.

CHAPTER 5 (20Marks) Data Communication & Networking

3marks question

8. Describe functional block diagram of MODEM.
9. Explain security services message confidentiality & message integrity.
10. Explain digital signature.
11. Describe parallel mode of data transmission.
12. Sketch TCP/IP reference model.

4marks question

- 13.Sketch OSI reference model & give function of data link & network layer.
- 14.Compare LAN,MAN,WAN.
- 15.Explain Star & Mesh topology.
- 16 Explain Synchronous & Asynchronous data transmission.
- 17.Draw pin configuration of RS-232 standard & give its four electrical characteristics.
18. Explain any two network connecting devices.

CHAPTER 6 Fiber Optics (12Marks)

3marks question

- 19 Differentiate Step index & Graded Index optical fiber.
20. Explain P-i-n photo diode as optical detector.
- 21 Explain dispersion loss in detail.
- 22Define
 - i)Numerical aperture
 - ii)Total internal reflection
 - iii) acceptance angle

4marks question

23 Describe different losses in fiber optic.

24 Explain block diagram of optical communication system.

25 State any four advantages of optical fiber cable.

26 State any four specifications of LASER.