

BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY
QUESTION BANK
Unit Test-I

Program: - Computer Engineering Group

Program Code:- CM

Course Title: - Data Communication & Computer Network

Semester: - Fourth

Course Abbr & Code:-DCN (314318)

Scheme: K

CHAPTER-1 (Fundamentals of Data Communication & Computer Network) (CO1)

2 MARKS

1. Define computer network and state applications of computer network.
2. Define bit rate and baud rate.
3. Define following term:
 - i) Protocol
 - ii) Bandwidth

4 MARKS

4. Explain components of data communication with neat diagram.
5. Differentiate between LAN MAN and WAN w.r.t Bandwidth, congestion, and maintenance and area coverage.
6. Differentiate between analog signal and digital signal
7. Describe various modes of data communication.
8. Explain Analog to Digital (ADC) conversion.
9. Explain Digital to Analog (DAC) conversion.

CHAPTER-2 (Transmission Media and Switching) (CO2)

2 MARKS

10. Define guided media with its examples.
11. Compare guided and unguided media.

12. State types of Multiplexing.
13. List four unguided media.

4 MARKS

14. Draw neat diagram of twisted pair cable and state its types..
15. Describe UTP and STP on basis of noise, easy of handling, cost and speed.
16. Draw neat sketch of fiber optics cable give transmission characteristics of fiber optics cable. State its applications.
17. Explain Satellite Communication.
18. Explain TDM with the help of diagram.
19. Define multiplexing? Compare TDM and FDM.
20. Explain with neat diagram working of circuit switching.
21. Compare circuit switching and packet switching network.

CHAPTER-3 (Error Detection and Correction) (CO3)

2 MARKS

22. Enlist types of errors.
23. Compare CRC and VRC.
24. Explain Hamming code.

4 MARKS

25. Explain VRC with example.
26. Explain working of CRC with example.