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B.Tech. CSE (Sem. – 5th)

COMPUTER NETWORKS

Subject Code: CS – 303

Important Questions from PTU Question Papers:-

2 Mark Questions:-

- 1) List various types of Transmission Media's?
- 2) What do you understand by spread spectrum?
- 3) Compare datagram and virtual circuits.
- 4) Discuss the concept of redundancy in error detection?
- 5) What is CDMA.
- 6) What is FDM.
- 7) Differentiate between error control and flow control.
- 8) What are the main users of ADSL technology?
- 9) What is DTE-DCE Interface?
- 10) Where is the use of Shannon?
- 11) What is analog to analog and digital to digital conversion?
- 12) What do you mean by packet switching?
- 13) What do you mean by Bandwidth?
- 14) What is the Difference b/w Packet and Frame?
- 15) What is Encoding?

5 Mark Questions:-

- 1) What is error detection and correction? Explain what techniques are available.

- 2) What are various types of multiplexing techniques? Explain them in detail?
- 3) What is the Difference between Synchronous and Asynchronous Communication? Also State the Difference between Serial and Parallel Data Communication?
- 4) What do you mean by VRC, LRC and CRC?
- 5) What are benefits of spread spectrum? Compare and contrast FHSS with DSSS.
- 6) What is Fibre Optics? What are the advantages of optical fibre over twisted pair and coaxial cable?
- 7) What is amplitude modulation and frequency modulation?
- 8) Compare the working of Circuit switching, Packet switching and message switching?
- 9) List and explain the function of different types of modems.
- 10) If a bit rate of a signal is 100 bps, how many bits can be sent in 5 s? How many bits in $1/5$ s? How many bits in 100 ms?

10 Mark Questions:-

- 1) Draw and explain TCP/IP protocol architecture and compare it with OSI model.
- 2) Explain in detail with the help of suitable example different error detection and correction techniques?
- 3) Explain the Process of Digital to Analog and Digital to Digital Conversion?
- 4) What are various types of spread spectrum techniques available? Explain each of them in detail.
- 5) a) Compare EIA-449 & EIA-530 structures.
b) List and explain various types of transmission impairments.

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