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B.Tech. (Sem. - 5th)

COMPUTER NETWORKS

SUBJECT CODE: CS - 303

<u>Paper ID</u>: [A0465]

[Note: Please fill subject code and paper ID on OMR]

Time: 03 Hours

Maximum Marks: 60

Instruction to Candidates:

- 1) Section A is Compulsory.
- 2) Attempt any Four questions from Section B.
- 3) Attempt any Two questions from Section C.

Section - A

Q1)

 $(10 \times 2 = 20)$

- a) List various types of transmission medias.
- b) What do you understand by bit rate?
- c) How is baud rate related to transmission bandwidth in ASK & FSK?
- d) What do you understand by Shannon capacity?
- e) What are two types of switches used in circuit switching?
- f) What do you understand by spread spectrum?
- g) Discuss the concept of redundancy in error detection.
- h) Compare datagram and virtual circuits.
- i) List two layers where flow control is performed.
- j) What is a protocol?

P.T.O.

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Section - B

 $(4 \times 5 = 20)$

- Q2) List and explain the function of different types of modems?
- Q3) 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?
- Q4) Explain the concept of spread spectrum? Explain the working of code division multiple access.
- Q5) Compare the working of Circuit switching, Packet switching and message switching?
- Q6) List and explain briefly different types of modulation techniques available?

Section - C

 $(2 \times 10 = 20)$

- Q7) (a) Compare X.21 & EIA-530 structures.
 - (b) List and explain various types of transmission impairments?
- Q8) Explain in detail with the help of suitable example different error detection and correction techniques?
- Q9) Explain briefly the functioning of different layers of OSI-ISO reference model? Also compare it with TCP/IP protocol architecture?

