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[Total No. of Pages: 02

Paper ID [A0465]

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B.Tech. (Sem. - 5th)

COMPUTER NETWORK (CS - 303)

Instruction to Candidates:

Time: 03 Hours

Maximum Marks: 60

- 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) What are the advantages of a multipoint connection over a point to point connection?
- b) Explain the responsibilities of the data link layer?
- c) What is the spectrum of a signal?
- d) Contrast an analog signal with a digital signal?
- e) Explain the purpose of guard band?
- f) Describe the DS hierarchy?
- g) Explain about circuit switch and folded switch?
- h) Explain the three types of redundancy checks used in data communication?
- i) Explain the purpose of a carrier signal in modulation?
- j) How does check sum checker know that the received data unit is undamaged?

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Section - B

 $(4 \times 5 = 20)$

- Q2) Why is frequency modulation superior to amplitude modulation?
- Q3) Explain the methods that convert a digital signal to an analog signal?
- Q4) Explain the modulation technique used by ADSL technology?
- **Q5**) Explain the purpose of hamming code? How can we use the hamming code to correct a single error?
- Q6) Explain the function of DTE and DCE? Give an example of each?

 $(2 \times 10 = 20)$

- Q7) How is X.21 able to eliminate most of the control circuit of the EIA standards?
- **Q8**) (a) Explain the advantages of optical fiber over twisted pair and coaxial cable?
 - (b) Explain the three types of transmission impairment?
- Q9) Explain the difference about TCP/IP and OSI reference mode?



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