

Roll No.

Total No. of Questions : 07]

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Paper ID [BC401]

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BCA (Sem. - 4th) *MAY-2008*

COMPUTER NETWORKS (BC - 401)

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Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.

Section - A

Q1)

(10 × 2 = 20)

- a) How the token passing technique is useful in accessing network resources?
- b) What is a hub? How it is different from network interface card?
- c) Discuss the role of network layer in OSI reference model.
- d) Explain main types of message services.
- e) What is a hybrid network?
- f) What is error control?
- g) What is a laser transmission?
- h) What is the advantage of designing TDM?
- i) Differentiate between Baseband and Broadband?
- j) Differentiate between fiber optic and twisted pair cable?

Section - B

(4 × 10 = 40)

Q2) (a) What are different cables used for networking?

(b) Compare features of Bridges and Switches.

Q3) Compare and contrast OSI and TCP/IP reference model?

Q4) What are the various topologies of networking? Discuss.

Q5) What are the different types of transmissions? Name two major categories of transmission media.

Q6) (a) Discuss IP issues with examples.

(b) Discuss the concept of virtual LAN's with help of example.

Q7) (a) Discuss various roles a protocol has to play.

(b) What is multiplexing? Explain the characteristics of STDM.

