

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

BCA (2011 & Onwards) (Sem.-6)

COMPUTER NETWORKS

Subject Code : BSBC-603

Paper ID : [A2379]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.**

SECTION-A

1. Write briefly :

- a) Distinguish LAN/WAN.
- b) Discuss the role of Data Link layer in OSI reference model.
- c) Give the difference between packet switching and message switching.
- d) What is the function of a modem?
- e) Explain IEEE802.5 token ring.
- f) What do you mean by SLIP?
- g) Discuss the advantage of microwave transmission.
- h) Differentiate between Baseband and Broadband.
- i) Discuss the working of Half Duplex mode of communication.
- j) What is a hybrid network?

SECTION-B

2. Compare and contrast the TCP/IP model and the OSI model in detail.
3. What are the different types of transmissions? Name two major categories of transmission media.
4.
 - a) Explain Optimality principle.
 - b) Compare features of Bridges and Switches.
5. What is switching? Explain the different techniques of switching.
6. Why there is need of congestion control? Define different mechanism to control Congestion.
7. Explain the function of FDM and TDM with example.