

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem.-4)
COMPUTER NETWORKS
Subject Code : BC-401
Paper ID : [B0215]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY.
2. Attempt any FOUR questions from SECTION-B.

SECTION-A

(10 × 2 = 20 Marks)

1. Write short notes on :

g communications.

- (b) Differentiate between half duplex and full duplex.
- (c) List the features of coaxial cable.
- (d) What is meant by radio transmission?
- (e) Differentiate between circuit switching and packet switching.
- (f) List the layers of OSI model.
- (g) What is the role of CSMA/CD?
- (h) Discuss the features of MAC sub layer.

- (j) What is meant by optimal routing?

SECTION-B

(4 × 10 = 40 Marks)

2. Discuss the following data communication techniques:-
 - (a) simplex
 - (b) half duplex
 - (c) full duplex

3. Discuss the working mechanism of fibre optic and twisted pair transmission media.
4. Explain the following types of wireless transmission :
 - (a) Infrared transmission
 - (b) Satellite transmission
5. Differentiate the major switching techniques used for communication.
6. Describe the features of following topologies :
 - (a) Ring topology
 - (b) Star topology
7. Discuss the role of following layers of OSI model :
 - (a) Data link layer