BCA (2013 & Onwards)   (Sem.–6)
COMPUTER NETWORKS
Subject Code : BSBC-603
M.Code : 71212

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. **Answer briefly :**

   a. Compare parallel and serial transmission.

   b. What is multiplexing in networking?

   c. Differentiate LAN and WAN.

   d. Give example of Infrared transmission.

   e. What is Frequency spectrum in networks?

   f. Write the use of SLIP protocol.

   g. Discuss CSMA/CD.

   h. Write any one application of shortest path routing.

   i. What is the principal of Internetworking?

   j. Compare OSI reference model with TCP/IP model.

SECTION-B

2. Explain different topologies in networks? Which is the best network topology?

3. a. Compare message switching and packet switching.

   b. What is the use of Multiplexing? Compare FDM with TDM?.

4. What is wireless transmission? Explain the functioning of Radio and Microwave transmission with example?

5. Which are the services provided by data link layer? How error can be detected and corrected during data transmission?

6. Explain the IEEE Ethernet standards used in computer networks with their working?.

7. Write the functioning of Network Layer. Explain different congestion control policies and write a short note on anyone.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.