BCA (2014 to 2018)   (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) What is the difference between synchronous and asynchronous communication?

   b) Differentiate between half-duplex and full-duplex.

   c) What is Ring topology? What is its suitability?

   d) What are the characteristics of optical fiber?

   e) Differentiate between guided and unguided transmission media.

   f) What is frequency spectrum?

   g) Differentiate between Circuit and Packet switching.

   h) What is CSMA/CD?

   i) What is Shortest Path routing?

   j) Define Internetworking.

SECTION-B

2. Differentiate between LAN, MAN and WAN in a tabular form.

3. What are the various transmission media used in computer networks? Discuss the wireless transmission media in detail.

4. Compare and contrast OSI and TCP reference models. Give areas where each of these is used.

5. Elaborate the various error detection and correction codes.

6. What do you mean by Multiplexing? Discuss any two types of multiplexing in detail.

7. What do you mean by Congestion? Discuss the various congestion control policies.

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.