Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 07

BCA (2013 & 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. **Answer briefly :**

    a) Differentiate between synchronous and asynchronous transmission.

    b) What is Multiplexing? What is its need?

    c) What is a WAN?

    d) Discuss the Ring topology in brief.

    e) Briefly explain radio transmission.

    f) What is Routing? Discuss any routing protocol in brief.

    g) What are error detection codes?

    h) Discuss in brief the working of IEEE standard 802.4 (Token Bus).

    i) What is the difference between CSMA/CD and CSMA/CA protocols?

    j) What is Internetworking?

SECTION-B

2. Define Computer Networks. Discuss and compare different types of networks.

3. Discuss the structure of the telephone system in detail. What are the major components of the telephone system?

4. What is switching? Discuss various switching techniques.

5. Describe the OSI seven layer model. Name each of the layers in the model and draw a diagram that shows the ordering of these layers. Describe the areas of function that each layer is responsible for.

6. Elaborate in detail the various congestion control policies.

7. Explain any one routing technique.