www.FirstRanker.com

www.FirstRanker.com

Roll No. Total No. of Pages: 02

Total No. of Questions: 09

BMCI (2014 & Onwards) (Sem.-3)
COMPUTER NETWORKS

Subject Code: BSBC-603 Paper ID: [72586]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION A

1. Answer briefly:

- a) Define Computer Networks.
- b) Differentiate between synchronous and asynchronous transmission.
- c) What is Multiplexing? What is its need?
- d) Discuss the Ring topology in brief.
- e) Briefly explain radio transmission.
- f) Discuss optimality routing principle in brief.
- g) What is Flooding?
- 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. Discuss and compare different types of networks.
- 3. Discuss the structure of the telephone system. What are the major components of the telephone system?
- 4. What is switching? Discuss Message switching technique.
- 5. Discuss and compare FDM and TDM.
- 6. Discuss Floyd Warshall shortest path algorithm.

SECTION C

- 7. 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.
- 8. What are the various services provided by Data Link Layer to the Network Layer? Elaborate Flow control in detail.
- 9. Elaborate in detail the various congestion control policies.

2 M-72586 (S2)-1076