

Roll No.

Total No. of Pages: 02

Total No. of Questions: 07

BCA (2011 & Onwards) (Sem. – 6)

COMPUTER NETWORKS

M Code: 71212

Subject Code: BSBC-603

Paper ID: [A2379]

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 **SIX** questions carrying **TEN** marks each and students have to attempt any **FOUR** questions.

SECTION A

1. Write short notes on the following:
 - a) Modes of communication
 - b) Demultiplexing
 - c) Data rate of channel
 - d) Frequency spectrum
 - e) Geostationary satellites
 - f) SLIP versus PPP
 - g) Framing
 - h) Optimality principle of routing
 - i) Leaky Bucket algorithm
 - j) Internetworking

SECTION B

2. What is a network topology? Discuss in brief the various network topologies giving their respective suitability.
3. What are the various transmission media used in computer networks? Discuss the wireless transmission media in detail.
4. What do you mean by Switching? Discuss and distinguish between Circuit switching, Message switching and Packet switching.
5. Elaborate the TCP/IP reference model in detail.
6. Discuss the working of IEEE standard 802.4 and 802.5.
7. Explain in detail the Shortest Path Routing algorithm.