

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

BCA (2011 & 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

Q1) Write briefly :

- What is a Hub? How it is different from Switch?
- What are the services provided by the data link layer?
- Differentiate between analog and digital signals.
- What is Flow Control?
- What is a Laser Transmission?
- Distinguish between connection oriented and connection-less services.
- Explain PPP in detail.
- Differentiate between fiber optic and twisted pair cable.
- Define Full Duplex mode.
- What is the purpose of Bridge?

SECTION-B

- Q2) What is Multiplexing? Explain the various techniques of multiplexing in detail.
- Q3) Differentiate between :
- (a) Analog and Digital
 - (b) Simplex and Half duplex
- Q4) Explain the design issue of Data Link layer in detail.
- Q5) (a) Compare Circuit / message / packet switching in detail.
- (b) Explain the different network topology : Star, Ring, Bus.
- Q6) What is Transmission Media? Explain the wireless media in detail.
- Q7) Discuss the different routing algorithms.