

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 :**

- a) What is a Hub? How it is different from Switch?
- b) What are the services provided by the data link layer?
- c) Differentiate between analog and digital signals.
- d) What is Flow Control?
- e) What is a Laser Transmission?
- f) Distinguish-between services connection oriented and connection
- g) Explain PPP in detail.
- h) Differentiate between fiber optic and twisted pair cable.
- i) Define Full Duplex mode.
- j) 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.