

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

DEP, BCA/BCA (Sem.-6)  
**COMPUTER NETWORKS**  
Subject Code : BSBC-603  
M.Code : 71212  
Date of Examination : 08-07-22

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) Distinguish FDM and TDM.
- (b) Distinguish Baseband and Broadband.
- (c) What do you understand by Internet working?
- (d) Distinguish OSI/ISO and TCP/IP model.
- (e) Distinguish Multiplexing and Demultiplexing.
- (f) Distinguish between Header and Payload.
- (g) Distinguish Unicasting, Multicasting and Broadcasting.
- (h) Distinguish SLIP and PPP protocol.
- (i) What do you understand by Flow control?
- (j) What do you understand by Error detection and correction? Why is it required?

## SECTION-B

2. Describe various types of network topologies with their pros and cons. Draw suitable diagrams also.
3. Explain Circuit switching, Packet switching and Message switching. Write their advantages and disadvantages also.
4. Explain IEEE 802.3 Ethernet standard in detail.
5. Discuss various Error detection and Correction techniques in detail.
6. Explain Dijkstra's shortest path routing algorithm in detail with the help of an example.
7.
  - a. Explain in detail about LAN, MAN and WAN.
  - b. Explain various modes of wired and wireless transmissions.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**