

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. (IT) (Sem.-4)
COMPUTER NETWORKS
Subject Code : BSIT-404
M.Code : 74086
Date of Examination : 15-07-22

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) Answer briefly :

- a) What is FDMA?
- b) Define Gigabit Ethernet.
- c) List the design issues of the network layer.
- d) What do you mean by analog transmission?
- e) What do you mean by WAN? What makes it different from MAN?
- f) List the disadvantages of a layered architecture in computer networks.
- g) What do you mean by synchronous data communication?
- h) Name an application where Infrared is used as transmission media.
- i) What do you mean by flow control?
- j) What is the concept of internetworking?

SECTION-B

- 2) Differentiate between packet switching, message switching and circuit switching techniques.
- 3) Explain various shortest path routing algorithms with example.
- 4) Differentiate between OSI and TCP/IP reference models and list the features of each layer.
- 5) Explain various error detection and correction code techniques at data link layer.
- 6) List and explain various types of network topologies.
- 7) Write short notes on :
 - a. Optical fiber transmission
 - b. CDMA.

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.