

Roll No.

Total No. of Pages : 02

Total No. of Questions : 16

BCA (Sem.-3)
COMPUTER NETWORKS
Subject Code : UGCA-1913
M.Code : 78179

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

Write briefly :

- 1) What is half-duplex communication?
- 2) What is the difference between MAN and WAN?
- 3) Define the frequency spectrum.
- 4) What is Multiplexing?
- 5) Explain the Leaky Bucket theory.
- 6) Describe Hub, Switch, and Router.
- 7) What is the principle of Optimality?
- 8) Explain data compression techniques.
- 9) Describe the following :
 - a) FTP
 - b) WWW
 - c) DNS
 - d) HTTP
- 10) How does token ring work?

SECTION-B

- 11) What is IEEE Standards? Explain various IEEE 802 standards for LAN.
- 12) What is Frame? Explain Frame format.
- 13) What is the wireless transmission? Explain the use of Radio and Microwave transmission.
- 14) Explain the layer of TCP/IP Model. What is the significance of TCP/IP Model?
- 15) What are the design issues of the Transport Layer? Explain elements of Transport protocols.
- 16) Describe the working principles and application of coaxial cable, twisted pair cable, and fiber optical transmission.

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