Bachelor of Science (Data Analytic) (Sem.-5)
COMPUTER NETWORK
Subject Code : UGCA1913

M.Code :94087

Date of Examination: 23-11-2023

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. Write short notes on :

   a) What is digital transmission?

   b) Write about use of Modem.

   c) Differentiate between LAN and WAN.

   d) Write the use of optical fiber.

   e) Define Distortion.

   f) Discuss PPP protocol.

   g) What is need of Addressing?

   h) Write a short note on congestion control policies.

   i) Discuss TCP/UDP.

   j) Define concept of Cryptography.

2. What are the different topologies in networks? Write their advantages.

3. a. Discuss multiplexing.

   b. Compare message switching with packet switching.

4. What do you mean by Routing? Explain the concept of shortest path routing.

5. What are the responsibilities of the data link layer? How it is used for error detection and correction?

6. Explain the IEEE Token Bus and Ring standards used in computer networks.

7. What is the purpose of Application Layer? Discuss the protocols used in this layer.