

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem-3)
COMPUTER NETWORKS
Subject Code : UGCA-1913
M.Code : 78179
Date of Examination : 21-06-2023

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 briefly :**
- a) Compare parallel and serial transmission.
 - b) What is half duplex in communication?
 - c) Differentiate between LAN and WAN.
 - d) Give an example of cloud.
 - e) Define Distortion.
 - f) Write the use of SLIP protocol.
 - g) Discuss CSMA/CD.
 - h) Write any one application of shortest path routing.
 - i) Discuss Leaky bucket algorithm.
 - j) Compare OSI reference model with TCP/IP model.

SECTION-B

2. Explain different topologies in networks. Which is the best network topology?
3. a) Compare message switching and packet switching.
b) What is the use of Multiplexing? Compare FDM with TDM.
4. What is wireless transmission? Explain the functioning of different transmission methods.
5. What are the services provided by data link layer? How error can be detected and corrected during data transmission?
6. Explain the IEEE Ethernet standards used in computer networks with their working.
7. Write the functioning of Network Layer. Explain the use of Cryptography.

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.