Roll No. Total No. of Pages: 02

Total No. of Questions: 07

BCA (Sem.-3)
COMPUTER NETWORKS

Subject Code: UGCA-1913

M.Code: 93331

Date of Examination: 11-01-23

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 digital and analog transmission.
- b. What is full duplex in communication.
- c. Differentiate MAN and WAN.
- d. Compare OSI and TCP/IP model.
- e. Define Attenuation.
- f. Discuss PPP protocol.
- g. What is CSMA/CD/CA?
- h. Write a short note on congestion control policies.
- i. Write the function of internetworking.
- j. Define concept of Cryptography.

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SECTION-B

- 2. What are the different topologies in networks? Write their advantages and disadvantages.
- 3. a. Discuss data compression.
 - b. Compare and contrast message switching and packet switching.
- 4. What do you mean by Routing? Explain the working of shortest path routing.
- 5. What are the responsibilities of the data link layer? Explain the process of error detection and recovery in data communication.
- 6. Explain the IEEE Token Bus and Ring standards used in computer networks.
- 7. What is the purpose of Application Layer? How distributes applications are used in this layer?

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.

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