Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (ECE) (Sem.-6)
COMPUTER NETWORKS
Subject Code: BTCS-504-18

M.Code: 79374

Date of Examination: 29-05-2023

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 FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

#### **SECTION-A**

# 1. Explain the following:

- a) LAN, MAN, WAN
- b) PPP
- c) Bandwidth and Throughput
- d) TCP and UDP
- e) Bridge and Router
- f) Ring topology
- g) FTP
- h) Twisted pair cable
- i) Pure Aloha and Slotted Aloha
- i) Fading.

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## **SECTION-B**

- 2. Discuss the advantages and disadvantages of different network topologies.
- 3. Explain with example multiplexing and de-multiplexing at transport layer.
- 4. Explain in detail error detection and correction control methods.
- 5. Discuss token bucket congestion control algorithm.
- 6. Differentiate between synchronous and asynchronous TDM.

### **SECTION-C**

- 7. Write a detailed note on ISO-OSI reference model.
- 8. What is DNS? Differentiate between recursive and iterative queries. Explain the formats of the query and response messages used in DNS.
- 9. Explain the four way process of handshaking to terminate the connection in TCP.

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.

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