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TMC-203

M. C. A. (SECOND SEMESTER) MID SEMESTER EXAMINATION, April, 2023

COMPUTER NETWORKS

Time: 11/2 Hours

Maximum Marks: 50

- Note: (i) Attempt all questions choosing any one of the sub-questions.
 - (ii) Each sub-questions carries 10 marks.
- 1. (a) What do you mean by computer network?

 Classify computer networks and various networks criteria in detail. (CO1)

OR

(b) What is the purpose of OSI and TCP/IP models in computer networks? How are the OSI model layers segregated by their functions? (CO1)

2. (a) How the Email system works? Explain the process of email system with the help of SMTP, MIMIE, POP and IMAP protocols. (CO2)

OR

- (b) Why HTTP protocol is used in application layer? Discuss the Non-persistent and Persistent connections of HTTP protocol in detail. (CO2)
- 3. (a) What do you mean by topologies in computer networks? Explain the different types of topologies based on the following points: (CO1)
 - (i) Number of cables required
 - (ii) Number of ports required
 - (iii) Advantages and disadvantages

OR

- (b) What is the significance of switching? Explain the various switching techniques with a neat and clean diagram. (CO1)
- 4. (a) What is the use of Domain Name System (DNS)? Explain the Domain Name, Name spaces and Name-address resolution techniques in detail. (CO2)

OR.

- (b) Discuss the principles and architectures of network applications in detail. (CO2)
- 5. (a) What is data communication system in computer networks? Discuss the data communication components, characteristics and modes of data flow in detail. (CO1)

OR

(b) What is p2p file distribution in computer networks? Explain the working of Bit Torrent in detail. (CO2)