Roll no.....

Mid Term (Odd) Semester Examination October 2024

Name of the Course and semester: Master of Computer Applications and 1st semester

Paper Code: TMC 102	
Time: 1.5 hour	Maximum Marks: 50
Note: (i) Answer all the questions by choosing any one of the sub questions (ii) Each question carries 10 marks. (iii) Please specify COs against each question.	
Q1. a. Define data communication. What are the essential components invo (CO1).	(10 Marks) blved in data communication?
 OR' Explain the client-server architecture. How does it differ from a peer 	r-to-peer architecture?(CO2)
Q2. a. Compare and contrast various network topologies (star, ring, bus, medisadvantages.(CO1)	
b. What is the format of an HTTP message? Describe the components of messages.(CO2)	of both request and response
Q3. a. Compare the OSI model with the TCP/IP protocol stack. What are th	(10 Marks) e key differences (CO1)
b. Describe the File Transfer Protocol (FTP). What are its primary commented HTTP? (CO2)	mands, and how does it differ from
Q4. a. Compare and contrast circuit switching and packet switching. What a each? (CO1)	(10 Marks) are the benefits and drawbacks of
b. Compare and contrast POP3 and IMAP. What are the advanta retrieval?(CO2)	ages of each protocol for emai
Q5. a. Define the four types of delays in a network: processing, queuin delays. How does each delay affect overall network performance? (CO)	(10 Marks) ng, transmission, and propagation CO1)
b. What are the primary functions of the DNS? How does it resolve do	main names to IP addresses.(CO2)