Mid Term (Odd) Semester Examination October 2024

Name of the Course and semester: Master of Computer Applications and 1 st semester Name of the Paper: Computer Networks	
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 involved in data communication? (CO1). OR	
b. Explain the client-server architecture. How does it differ from a peer-to-peer architecture?(CO2)	
Q2.a. Compare and contrast various network topologies (star, ring, bus, mesh) in terms of advantages and disadvantages.(CO1)	
(10 Marks)	
OR b. What is the format of an HTTP message? Describe the components of both request and response messages.(CO2)	
Q3. a. Compare the OSI model with the TCP/IP protocol stack. What are the key differences (CO1) OR	
 b. Describe the File Transfer Protocol (FTP). What are its primary commands, and how does it differ f HTTP? (CO2) 	rom
Q4. a. Compare and contrast circuit switching and packet switching. What are the benefits and drawbacks each? (CO1)	of
OR b. Compare and contrast POP3 and IMAP. What are the advantages of each protocol for e retrieval?(CO2)	mai
Q5. a. Define the four types of delays in a network: processing, queuing, transmission, and propaga delays. How does each delay affect overall network performance? (CO1) OR	atio
b. What are the primary functions of the DNS? How does it resolve domain names to IP addresses.(Co	O2)