SRM Institute of Science and Technology
College of Engineering and Technology

DEPARTMENT OF ECE

SRM Nagar, Kattankulathur – 603203, Chengalpattu District, Tamilnadu

Academic Year: 2022-23 (EVEN)

Batch 1
SET A

Test: CLAT-1
Course Code & Title:18ECC303J& COMPUTER COMMUNICATION NETWORK
Year & Sem: III & VI

Date: 20.02.2023
Time: 12:30 to 1:30 PM
Max. Marks: 25

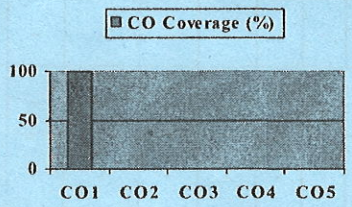
Course Articulation Matrix:

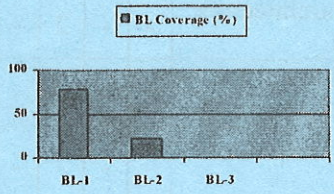
CO	18ECC303J - Computer Communication Networks	Program Outcomes (POs)														
		Graduate Attributes												PSO		
	Course Outcomes (COs)	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	Express the basic services and concepts related to internetworking.	-	-	-	-	-	-	3	-	-	-	-	2	-	-	-
2	Define the basic OSI model architecture and its lower layer functions.	-	-	2	-	-	-	1	-	-	-	-	-	-	-	3
3	Apply the various Network Layer concepts, mechanisms and protocols.	-	-	3	-	-	1	2	-	-	-	-	-	-	-	-
4	Analyze the services and techniques of Transport Layer.	-	-	-	-	-	-	2	-	-	-	-	-	-	-	3
5	Produce the various services and protocols in Application Layer.	-	-	2	-	-	-	-	-	-	-	-	-	-	-	3
6	Evaluate the various Networking concepts and Routing protocols.	-	-	-	-	1	-	-	-	-	-	-	2	-	-	3

Q. No	PART – A (5 X 1 = 5 Marks) Answer all the questions	Mark	BL	CO	PO
1	The maximum payload length in IEEE 802.3 frame is _____ Bytes. a. 45 b. 3200 c. 1500 d. 8190	1	1	1	7
2	Number of full duplex links required in ring topology to connect 'N' nodes is a. N b. N-1 c. 2N d. N/2	1	2	1	7
3	_____ layer provides process to process delivery. a. Physical b. Data link c. Network d. Transport	1	1	1	7
4	Main difference between synchronous and asynchronous transmission a. Band width required is different b. Pulse height is different c. Clocking is derived from the data in synchronous transmission d. Clocking is mixed with data in asynchronous transmission	1	1	1	7
5	A _____ is a set of rules that governs the communication. a. Standard b. Protocol c. Server d. RFCs	1	1	1	7

	PART -B (2 X 4 = 8 Marks) **Answer Any two questions**				
6	**Compare Datagram packet switching and Virtual circuit switching networks.** (Any 2 pts)	4	2	1	7
7	**Explain the function of Data link layer and Network layer in OSI model.**	4	1	1	7
8	**Discuss the 10 Base 5 implementation of Ethernet with a neat diagram.**	4	2	1	7
	PART – C (1 X 12 =12 Marks) **Answer Either or Question**				
9	**i. With a neat timing diagram, explain the delay caused in the three phases of Circuit switching.** **ii. Draw the frame format of FDDI, name the fields in it.**	8 4	1	1	7
10	**i. Discuss the star, ring network topologies with their advantages and disadvantages** **ii. Compare LAN and MAN**	8 4	1	1	7

Course Outcome (CO) and Bloom's level (BL) Coverage in Questions





Approved by the Course Coordinator

Name of the Student: **Register No.:**

Part- A (5 x 1= 5 Marks)					
Q. No	CO	PO	Maximum Marks	Marks Obtained	Total
1	CO1	7	1		
2	CO1	7	1		
3	CO1	7	1		
4	CO1	7	1		
5	CO1	7	1		
Part- B (2 x 4= 8 Marks)					
6	CO1	7	4		
7	CO1	7	4		
8	CO1	7	4		
Part – C (1 X 12 = 12 marks)					
9	CO1	7	12		
10	CO1	7	12		

CO	Maximum	Marks
1	41	
Total	41	

PO	Maximum	Marks
7	41	
Total	41	

Signature of the Question paper setter **Academic Advisor**