

Test: CLAT-I

Course Code &amp; Title: 18ECC303J Computer Communication Networks

Year &amp; Sem: III/6

Date: 09/02/2023

Duration: 45 mins

Max. Marks: 25

**Course Articulation Matrix**

Course Learning Outcomes (CLO):

At the end of this course, learners will be able to:

CLO-1 Express the basic services and concepts related to internetworking.

CLO-2 Explain the basic OSI model architecture and its lower layer functions.

CLO-3 Illustrate the various Network Layer concepts, mechanisms and protocols.

CLO-4 Describe the services and techniques of Transport Layer.

CLO-5 Discuss the various services and protocols in Application Layer.

CLO-6 Analyze the various Networking concepts and Routing protocols.

Learning Level of Expected	Learning Level of Expected	Program Learning Outcomes (PLO)														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	60	65														
2	60	65														
3	60	65														
4	60	65														
5	60	65														
6	60	65														

**Part - A**

(15 x 01 = 15 Marks)

**Instruction: Answer All Questions**

Q. No	Question	Marks	BL	CO	PO
1	The number of Full duplex links required in mesh topology to connect 25 devices is _____ a. 150 b. 200 c. 250 d. 300	1	1	1	7
2	_____ frame in token ring contains start delimiter and end delimiter a. Token b. Abort c. Data d. Command	1	1	1	7
3	The minimum size of frame length in Ethernet is _____ a. 0 b. 32 c. 54 d. 46	1	1	1	7
4	In _____ layer can have only message switching. a. Physical b. Application c. Network d. Datalink	1	1	1	7
5	Which is not a common standard of Ethernet? a. 10base5 b. 10Base2 c. 10BaseZ d. 10Base F	1	1	1	7
6	Choose the correct standard notation of Fast Ethernet a. 802.4 b. 802.5 c. 802.4a d. 802.3u	1	1	1	7

7	_____ is the maximum number of symbols that can be represented by Unicode a. $2^{16}$ b. $2^{32}$ c. $2^{64}$ d. $2^{128}$	1	1	1	7
8	Name of the data packet in datalink layer is a. datagram b. segment c. Frame d. Format	1	1	1	7
9	_____ topology uses multipoint connection. a. Bus b. star c. Ring d. Mesh	1	2	1	7
10	In a six node topology, how many ports are needed for each device a. 1 b. 5 c. 6 d. 15	1	2	1	7
11	Token ring and FDDI both use _____ as an access method a. CSMA b. CSMA/CD c. Token passing d. HDLC	1	2	1	7
12	Which of the following is not a protocol in the FDDI standard? a. PMD b. PHY c. MAC d. HDLC	1	2	1	7
13	An FDDI LAN can use _____ as a medium a. any metallic cable b. copper cable c. fiber optic cable d. both b or c	1	2	1	7
14	A multistation access unit is most often used in _____ LAN a. an Ethernet b. Token Ring c. an FDDI d. Both c & d	1	2	1	7
15	Token bus physically configured as a. Ethernet b. Token Ring c. FDDI d. Both c & d	1	2	1	7

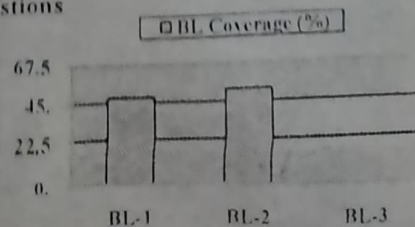
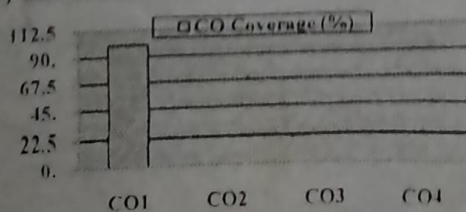
### Part – B

(01 x 10 = 10 Marks)

Instruction: Answer All Questions

16.A	Explain the various switching techniques used for data transfer.	1	2	1	7
OR					
16.B	Explain FDDI standard in detail	1	2	1	7

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





Test: CLAT-3

Course Code & Title: 18ECC303J COMPUTER COMMUNICATION NETWORKS

Year & Sem: III & 6

Date: 08/05/2023

Duration: 90 mins.

Max. Marks: 50

**Course Articulation Matrix:**

Course Learning Outcomes (CLOs)	Program Learning Outcomes (PLOs)														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLO-1 Express the basic services and concepts related to internetworking.	-	-	-	-	-	-	3	-	-	-	-	2	-	-	-
CLO-2 Explain the basic OSI model architecture and its lower layer functions.	-	-	2	-	-	-	1	-	-	-	-	-	-	-	3
CLO-3 Illustrate the various Network Layer concepts, mechanisms and protocols.	-	-	3	-	-	1	2	-	-	-	-	-	-	-	-
CLO-4 Describe the services and techniques of Transport Layer.	-	-	-	-	-	-	2	-	-	-	-	-	-	-	3
CLO-5 Discuss the various services and protocols in Application Layer.	-	-	2	-	-	-	-	-	-	-	-	-	-	-	3
CLO-6 Analyze the various Networking concepts and Routing protocols.	-	-	-	-	1	-	-	-	-	-	-	2	-	-	3

**Part – A (10 x 01 = 10 Marks)**

**Instruction: Answer All Questions**

Q. No.	Question	Marks	BL	CO	PO
1	The client program is assigned a random port number called an _____ port number. a. External      b. Ephemeral      c. Active      d. United	01	01	04	07
2	What is the name of combination of the IP address and the port number? a. socket address    b. Port address    c. Checksum    d. Flag	01	01	04	07
3	What is the packet name used by UDP? a. Datagram    b. Frame    c. Packet    d. Byte	01	01	04	07
4	What are Leaky bucket and token bucket techniques? a. Scheduling      b. flow control c. traffic shaping    d. Matching	01	02	04	07
5	Which is signalling protocol that helps IP to create a flow and makes a resource reservation? a. RSVP    b. FECN      c. ATM      d. Frame Relay	01	01	04	07
6	Which protocol commands and responses to transfer messages between an MTA client and an MTA server? a. FTP      b. SNMP      c. RSVP      d. SMTP	01	01	05	03
7	With the help of what FTP employs communication between dissimilar systems? a. NVT ASCII    b. MAP4      c. POP3      d. MIME	01	02	05	03
8	Which one of the following can be classified under static, dynamic or active? a. Web document    b. Frame      c. Email      d. Picture	01	02	05	03
9	Which connection is used to transfer files by HTTP? a. UDP      b. TCP      c. e mail      d. SNMP	01	02	05	03

10	Which one of the following keeps copies of responses to recent requests? a. Proxy server    b. message    c. HTML    d. WWW	01	02	05	03
<b>Part – B ( 04 x 04 = 16 Marks)</b> <b>Instruction: Answer any 4</b>					
11	Write uses of the UDP protocol.	04	02	04	07
12	List any 8 Well-known ports used by TCP	04	03	04	07
13	Write short notes on TCP sliding windows	04	03	04	07
14	Brief about File Transfer Protocol (FTP)	04	03	05	03
15	List the various responses produced by SMTP.	04	03	05	03
<b>Part – C ( 02 x 12 = 24 Marks)</b> <b>Instruction: Answer All Questions</b>					
16.A	Explain the format of TCP segment in detail with diagram	12	03	04	07
OR					
16.B	Illustrate how leaky bucket and token bucket methods are effective in improving the QOS?	12	03	04	07
17.A	Demonstrate in detail about the steps involved in RSA algorithm.	12	03	05	03
OR					
17.B	Explain in detail about SNMP and HTTP with neat diagrams.	12	03	05	03

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

