

University of Mumbai

Examination 2020 under cluster 4 (PCE)

Program: TE Electronics and Telecommunication Engineering

Curriculum Scheme: Rev2016

Examination: Third Year Semester VI

Course Code: ECC602 and Course Name: **Computer Communication Networks**

Time: 1 hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Mail services and directory Services are available to network users through the
Option A:	Data Link Layer
Option B:	Session Layer
Option C:	Transport layer
Option D:	Application Layer
Q2.	A Tree topology is a variation of a
Option A:	Mesh topology
Option B:	Star Topology
Option C:	Bus topology
Option D:	Ring Topology
Q3.	The data unit in the TCP/IP Application layer is called as
Option A:	Message
Option B:	Segment
Option C:	Datagram
Option D:	Frame
Q4.	The physical layer concern with
Option A:	bit to bit delivery
Option B:	process to process delivery
Option C:	application to application delivery
Option D:	host to host delivery
Q5.	How many select lines would be required for an 8-line-to-1-line multiplexer?
Option A:	2
Option B:	4
Option C:	8
Option D:	3
Q6.	WiMAX is mostly used for _____
Option A:	local area network
Option B:	metropolitan area network
Option C:	personal area network
Option D:	wide area network
Q7.	Which bit is transmitted first in a serial communication?
Option A:	Least significant bit

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Option B:	Most significant
Option C:	All the bits simultaneously
Option D:	Not in any specific order
Q8.	Which of the following is NOT an Error Detection method?
Option A:	Parity Checking
Option B:	Checksum Error detection
Option C:	Random Count Check
Option D:	Cyclic Redundancy Check
Q9.	Which of the following is NOT a frame defined in HDLC?
Option A:	I-frame
Option B:	B-frame
Option C:	S-frame
Option D:	U-frame
Q10.	A sender has a sliding window of size 15. The first 15 frames are sent. The receiver sends 10 ACK messages and expands its window. What is the size of the receiver window now?
Option A:	5
Option B:	9
Option C:	10
Option D:	15
Q11.	The gaps between characters in asynchronous transmission are _____ in length
Option A:	Variable
Option B:	Fixed-size
Option C:	exactly one character
Option D:	one byte
Q12.	DIFS and SIFS is used in
Option A:	CSMA
Option B:	CSMA/CA
Option C:	CSMA/CD
Option D:	Reservation
Q13.	The solution to Hidden station problem is to use
Option A:	Token ring
Option B:	Reservation
Option C:	Handshake frames
Option D:	Network allocation vector
Q14.	The _____ protocol allows the administrator to assign a cost, called the metric, to each route.
Option A:	OSPF
Option B:	RIP
Option C:	BGP

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Option D:	TCP
Q15.	The _____ routing uses the Dijkstra algorithm to build a routing table.
Option A:	Distance vector
Option B:	Link state
Option C:	Path vector
Option D:	Belmann Ford
Q16.	For creating a neighborhood relationship, a router running BGP sends an _____ message.
Option A:	Open
Option B:	Update
Option C:	keep alive
Option D:	Response
Q17.	The _____ protocol allows the administrator to assign a cost to each route, called the metric.
Option A:	OSPF
Option B:	RIP
Option C:	BGP
Option D:	TCP
Q18.	You have a network with a subnet of 172.16.17.0/22. Which is the valid host address?
Option A:	172.16.17.1 255.255.255.252
Option B:	172.16.0.1 255.255.240.0
Option C:	172.16.20.1 255.255.254.0
Option D:	172.16.18.255 255.255.252.0
Q19.	Which of the following services use UDP?
Option A:	DHCP , SNMP , TFTP
Option B:	SMTP
Option C:	FTP
Option D:	HTTP
Q20.	Which of the following is a transport layer protocol?
Option A:	stream control transmission protocol
Option B:	internet control message protocol
Option C:	neighbor discovery protocol
Option D:	dynamic host configuration protocol
Q21.	Which layer 4 protocols is used for a Telnet connection?
Option A:	IP
Option B:	TCP
Option C:	TCP/IP

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Option D:	UDP
Q22.	Which of the following functionalities must be implemented by a transport protocol over and above the network protocol?
Option A:	Recovery from packet losses
Option B:	Detection of duplicate packets
Option C:	Packet delivery in the correct order
Option D:	End to end connectivity
Q23.	Which of the following is not a characteristic of User Datagram Protocol in transport layer?
Option A:	Works well in unidirectional
Option B:	It does three way handshake
Option C:	It provides datagrams, suitable for modeling other protocols
Option D:	The lack of retransmission delays
Q24.	NAV is used for _____ purpose
Option A:	Collision Avoidance
Option B:	Reservation
Option C:	Collision Avoidance
Option D:	Channelizing
Q25.	Which of the following is not a function of LLC?
Option A:	Error recovery
Option B:	Flow control
Option C:	Connection establishment
Option D:	User Addressing

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	D
Q2.	B
Q3.	A
Q4	A
Q5	D
Q6	B
Q7	A
Q8.	C
Q9.	B
Q10.	D
Q11.	A
Q12.	B
Q13.	C
Q14.	A
Q15.	B
Q16.	A
Q17.	A
Q18.	D
Q19.	A
Q20.	A
Q21.	B
Q22.	D
Q23.	B
Q24.	A
Q25.	C