

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Program: BE Computer Engineering
Curriculum Scheme: Rev2016
Examination: Third Year Semester V
Course Code: CSC503 and Course Name: Computer Networks

Time: 1 hour

Max. Marks: 50

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

Q1.	A _____ is the physical path over which a message travels.
Option A:	Path
Option B:	Route
Option C:	Medium
Option D:	Protocol
Q2.	What should be the flag value to indicate the last fragment
Option A:	TTL value
Option B:	1
Option C:	0
Option D:	Protocol field value
Q3.	The distance that the wave travels in one cycle is called as?
Option A:	Displacement
Option B:	Wavelength
Option C:	Cycle length
Option D:	Cycle amplitude
Q4.	FTP uses __ parallel connection to transfer file
Option A:	3
Option B:	1
Option C:	2
Option D:	4
Q5.	In multicast routing, each involved router needs to construct a path tree for each group
Option A:	Average
Option B:	Very longest
Option C:	Longest
Option D:	Shortest
Q6.	Network congestion occurs _____
Option A:	When a system terminates
Option B:	In case of traffic overloading
Option C:	When connection between two nodes terminates
Option D:	In case of transfer failure
Q7.	Telnet protocol uses port no. ___ to establish a connection

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Option A:	23
Option B:	21
Option C:	20
Option D:	24
Q8.	The portion of the electromagnetic spectrum occupied by a signal is called _____
Option A:	Signal spectrum
Option B:	Bandwidth
Option C:	Frequency width
Option D:	Signal strength
Q9.	FTP can't do data transfer in _____
Option A:	Stream
Option B:	Block
Option C:	Compressed
Option D:	Message
Q10.	How many layers are present in the Internet protocol stack (TCP/IP model)?
Option A:	5
Option B:	7
Option C:	6
Option D:	3
Q11.	Which among the following is not the design issue of Data Link Layer?
Option A:	Error Control
Option B:	Framing
Option C:	Routing
Option D:	Flow Control
Q12.	Suppose a TCP connection is transferring a file of 1000 bytes. The first byte is numbered 10001. What is the sequence number of the segment if all data is sent in only one segment?
Option A:	10000
Option B:	10001
Option C:	12001
Option D:	11001
Q13.	Which of the following is the broadcast address for a Class B network ID using the default subnet mask?
Option A:	172.16.10.255
Option B:	255.255.255.255
Option C:	172.255.255.255
Option D:	172.16.255.255
Q14.	_____ augments the CSMA algorithm to detect collision
Option A:	CSMA/CA
Option B:	CSMA/CD

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Option C:	CSMA/CN
Option D:	Not Possible
Q15.	In the _____ algorithm of TCP, the size of the congestion window increases exponentially until it reaches a threshold.
Option A:	Slow Start
Option B:	Congestion avoidance
Option C:	Congestion detection
Option D:	Collision detection
Q16.	The client in socket programming must know which information?
Option A:	IP address of Server
Option B:	Both IP address of Server & Port number
Option C:	Port number
Option D:	Only its own IP address
Q17.	Which one of the following algorithm is not used for congestion control
Option A:	Routing information protocol
Option B:	Traffic aware routing
Option C:	Admission control
Option D:	Load shedding
Q18.	You have an IP address of 172.16.13.5 with a 255.255.255.128 subnet mask. What is your class of address, subnet address, and broadcast address?
Option A:	Class A, Subnet 172.16.13.0, Broadcast address 172.16.13.127
Option B:	Class B, Subnet 172.16.13.0, Broadcast address 172.16.13.127
Option C:	Class B, Subnet 172.16.13.0, Broadcast address 172.16.13.255
Option D:	Class B, Subnet 172.16.0.0, Broadcast address 172.16.255.255
Q19.	A 4 byte IP address consists of _____
Option A:	Only host address
Option B:	Only network address
Option C:	Network address & host address
Option D:	Network address & MAC address
Q20.	In slotted ALOHA, the vulnerable time is _____ the frame transmission time
Option A:	The same as
Option B:	Two times
Option C:	Three times
Option D:	Four times
Q21.	The inner core of an optical fiber is _____ in composition
Option A:	Glass or plastic
Option B:	Copper
Option C:	Bimetallic
Option D:	Liquid
Q22.	In _____ autonegotiation allows two devices to negotiate the mode or

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	data rate of operation
Option A:	Standard
Option B:	Fast Ethernet
Option C:	Gigabit Ethernet
Option D:	Ten-Gigabit Ethernet
Q23.	The size of an IP address in IPv6 is _____
Option A:	32 bits
Option B:	100 bits
Option C:	64 bits
Option D:	128 bits
Q24.	Each frame in HDLC may contain up to
Option A:	Three fields
Option B:	Four fields
Option C:	Five fields
Option D:	Six fields
Q25.	Transport layer protocols deals with _____
Option A:	Process to process communication
Option B:	Application to application communication
Option C:	Node to node communication
Option D:	Man to man communication

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

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