Program: Computer Engineering
Curriculum Scheme: Rev2016
Examination: Third Year Semester V
Course Code: CSC 503 and Course Name: Computer Networks

Time: 1-hour   Max. Marks: 50

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

Q1.	Find the network address for given IP address 5.6.45.0
Option A:	5.6.45.0
Option B:	5.0.0.0
Option C:	5.255.255.255
Option D:	5.6.45.0
Q2.	A group of computers and other devices connected together is called a network, and the concept of connected computers sharing resources is called
Option A:	Inter-networking
Option B:	Inter-connection
Option C:	Computer Group
Option D:	Networking
Q3.	What is the size of MAC Address?
Option A:	32 BIT
Option B:	48 BIT
Option C:	16 BIT
Option D:	128 BIT
Q4.	The technique of temporarily delaying outgoing acknowledgements so that they can be hooked onto the next outgoing data frame is called _____
Option A:	cyclic redundancy check
Option B:	piggybacking
Option C:	fletcher's checksum
Option D:	parity check
Q5.	In Circuit Switching, the resources need to be reserved during the
Option A:	Data transfer phase
Option B:	Teardown phase
Option C:	Setup Phase
Option D:	Propagation Phase
Q6.	The network layer protocol for internet is _____
Option A:	ethernet

Option B:	internet protocol
Option C:	hypertext transfer protocol
Option D:	file transfer protocol
Q7.	ICMP is primarily used for _____
Option A:	error and diagnostic functions
Option B:	addressing
Option C:	forwarding
Option D:	routing
Q8.	IPv4 header size is
Option A:	always 20 bytes long
Option B:	is 20 to 60 byte long
Option C:	always 60 bytes long
Option D:	fixed 65536 bit
Q9.	Which software prevents external access to a system?
Option A:	Firewall
Option B:	Gateway
Option C:	Router
Option D:	Virus checker
Q10.	When the mail server sends mail to other mail servers it becomes
Option A:	SMTP client
Option B:	SMTP server
Option C:	Peer
Option D:	Master
Q11.	The length of an IPv6 address is?
Option A:	32 bit
Option B:	256 bit
Option C:	128 bit
Option D:	16 bit
Q12.	Which layer provides the services to user?
Option A:	application layer
Option B:	session layer
Option C:	presentation layer
Option D:	physical layer
Q13.	A complete communication system must include:
Option A:	a transmitter and receiver
Option B:	a transmitter, a receiver, and a channel
Option C:	a transmitter, a receiver, and a spectrum analyzer
Option D:	a multiplexer, a demultiplexer, and a channel
Q14.	Which of the following correctly lists electromagnetic waves in order from longest to shortest wavelength?

Option A:	gamma rays, ultraviolet, infrared, microwaves
Option B:	microwaves, ultraviolet, visible light, gamma rays
Option C:	radio waves, infrared, gamma rays, ultraviolet
Option D:	television, infrared, visible light, X-rays
Q15.	In byte stuffing, a special byte is added to the data section of the frame when there is a character with the same pattern as the
Option A:	Flag
Option B:	Error
Option C:	Sender
Option D:	Destination
Q16.	In ...., the sender sends one frame, stops until it receives confirmation from the receiver, and then sends the next frame.
Option A:	stop and wait protocol
Option B:	simplest protocol
Option C:	sliding window protocol
Option D:	High level Data Link Control Protocol(HDLC)
Q17.	The technique in which a congested node stops receiving data from the immediate upstream node or nodes is called as _____
Option A:	Backpressure
Option B:	Forward signaling
Option C:	Backward signaling
Option D:	Admission policy
Q18.	In open-loop control, policies are applied to _____
Option A:	Remove after congestion occurs
Option B:	Remove after sometime
Option C:	Prevent before congestion occurs
Option D:	Prevent before sending packets
Q19.	A leaky bucket algorithm shapes bursty traffic into fixed-rate traffic by averaging the
Option A:	Average rate
Option B:	traffic rate
Option C:	data rate
Option D:	trafic shaping
Q20.	An endpoint of an inter-process communication flow across a computer network is called _____
Option A:	pipe
Option B:	port
Option C:	machine
Option D:	socket
Q21.	The _____ field is used to detect errors over the entire user datagram.

Option A:	udp header
Option B:	checksum
Option C:	source port
Option D:	destination port
Q22.	FTP uses _____ parallel TCP connections to transfer a file.
Option A:	1
Option B:	2
Option C:	3
Option D:	4
Q23.	Dijkstra's Algorithm is used to solve _____ problems.
Option A:	All pair shortest path
Option B:	Single source shortest path
Option C:	Network flow
Option D:	Sorting
Q24.	If you use either FTP or TELNET,which is the highest layer you are using to transmit the data
Option A:	Presentation
Option B:	session
Option C:	Application
Option D:	network
Q25.	The source-quench message in ICMP was designed to add a kind of _____ to the IP.
Option A:	error control
Option B:	flow control
Option C:	router control
Option D:	switch control