Variant 5					
Midterm Exam.	CSS	312	Fall	201	19

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	VARIANT 5		
Q1	Which address provides a unique host address for data communications at the internet layer?		
Α	data-link address		
В	logical address		
С	Layer 2 address		
D	physical address		
Q2	A web client is sending a request for a webpage to a web server. From the perspective of the client, what is the correct order of the protocol stack that is used to prepare the request for transmission?		
Α	HTTP, IP, TCP, Ethernet		
В	HTTP, TCP, IP, Ethernet		
С	Ethernet, TCP, IP, HTTP		
D	Ethernet, IP, TCP, HTTP		
Q3	Which protocol is responsible for controlling the size and rate of the HTTP messages exchanged between server and client?		
Α	НТТР		
В	ARP		
С	TCP		
D	DHCP		
Q4	A PC is downloading a large file from a server. The TCP window is 1000 bytes. The server is sending the file using 100-byte segments. How many segments will the server send before it requires an acknowledgment from the PC?		
Α	1 segment		
В	10 segments		
С	100 segments		
D	1000 segments		
Q5	What is a socket?		
A	the combination of the source and destination IP address and source and destination Ethernet address		
В	the combination of a source IP address and port number or a destination IP address and port number		

С	the combination of the source and destination sequence and acknowledgment numbers	
D	the combination of the source and destination sequence numbers and port numbers	
Q6	What type of information is included in the transport header?	
A	destination and source logical addresses	
В	destination and source physical addresses	
С	destination and source port numbers	
D	encoded application data	
Q7	Multicast address begin with?	
A	FF0x	
В	FFx	
С	FBx	
D	FFAx	
Q8	Which one is the shortest and correct abbrevation for FE80:0000:0000:0100:0000:0000:0123?	
A	FE80::1:123	
В	FE80:1::0123	
С	FE80:0:0:0100:0:0:0123	
D	FE80:0:0:100:0:0:0:123	
Q9	Which character(s) is used in IPv6 to describe zeros?	
A	ii.	
В		
С	~	
D	:/,	
Q10	Logical parts' takes in place in which layer?	
A	Data-link Data-link	
В	Physical	
С	Network	
D	Session	
Q11	Which one is not function of Network Layer?	
A	routing	
В	congeestion control	
С	inter-networking	
_		
D	none of the mentioned	

F	
Α	IPv4
В	IPv6
С	IPv4 and IPv6
D	IP phone
Q13	This command help displaying an arp table in host devices
А	show ip arp
В	show arp table
С	arp -d
D	arp -a
Q14	This command displays number of runts and jumbos was received by a Cisco Ethernet switch?
Α	show ip interface brief
В	show running-config
С	show runts
D	show interfaces
Q15	What will receiving device do if it received a jumbo frame?
A	drops the frame
В	sends a source device to resend the frame
С	
D	device will be rebooted
Q16	Name type of communication, where both receiver and sender can transmit data simultaneously
А	Half duplex
В	Full duplex
С	Simplex
D	Half-full duplex
Q17	What is type of frame field indicates source and destination node addresses on a media?
А	Туре
В	Control
С	Data
D	Addressing
Q18	Definition of the bandwidth
А	speed of the data in real time
В	capacity of the medium to flow control
ı	

С	capacity of the medium to carry a data		
D	measure of the bits transferred in a media in specific time slot		
Q19	Select the mode of IOS that allows user to monitor and execute configurations		
A	Privileged Exec mode		
В	User Exec mode		
С	Global configuration mode		
D	Rommon mode		
Q20	What is the function of login command when setting passwords for console?		
A	to enable password encryption		
В	to check password syntaxis		
С	request of the password before entering into a configuration using console connection		
D	request of the password before entering into a configuration using remote connection		
Q21	Select the mode of IOS which referred as "read-only"		
А	Privileged Exec mode		
В	User Exec mode		
С	Global configuration mode		
D	Rommon mode		
Q22	The process of placing one message format inside another message format		
А	Encoding		
В	Encapsulation		
С	Decapsulation		
D	Sizing		
Q23	This layer of OSI model ensures that information sent by the application layer of one system will be readable by the application layer of another		
A	session		
В	presentation		
С	application		
D	physical		
Q24	This type of network is designed to be accessible only by the organization's members, employees, or others with authorization		
	A. Intranet B.Internet C.LAN D. WAN		
Q25	How many bits must be borrowed from the host portion of an address to accommodate a router with five connected networks?		
	A. 1 B. 2 C. 3 D. 4		

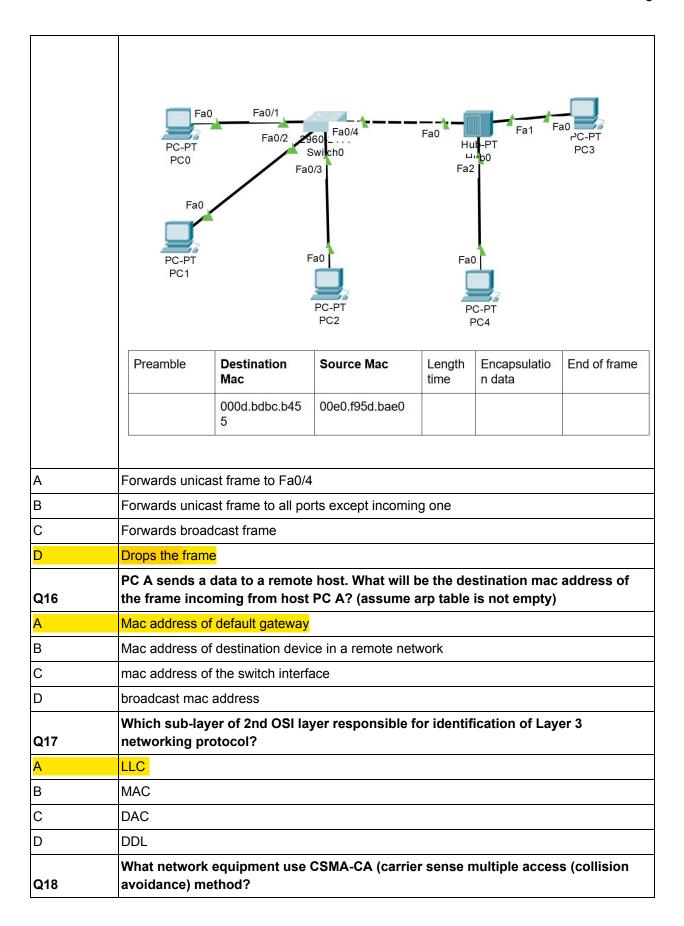
Variant 6		
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	VARIANT 6		
Q1	Which protocol is responsible for controlling the size and rate of the HTTP messages exchanged between server and client?		
Α	HTTP		
В	ARP		
С	TCP		
D	DHCP		
Q2	What type of communication will send a message to all devices on a local area network?		
A	broadcast		
В	multicast		
С	unicast		
D	allcast		
Q3	What is an advantage for small organizations of adopting IMAP instead of POP?		
A	Messages are kept in the mail servers until they are manually deleted from the email client.		
В	When the user connects to a POP server, copies of the messages are kept in the mail server for a short time, but IMAP keeps them for a long time.		
С	IMAP sends and retrieves email, but POP only retrieves email.		
D	POP only allows the client to store messages in a centralized way, while IMAP allows distributed storage.		
Q4	A PC is downloading a large file from a server. The TCP window is 1000 bytes. The server is sending the file using 100-byte segments. How many segments will the server send before it requires an acknowledgment from the PC?		
A	1 segment		
В	10 segments		
С	100 segments		
D	1000 segments		
Q5	When is UDP preferred to TCP?		
Α	when a client sends a segment to a server		
В	when all the data must be fully received before any part of it is considered useful		
С	when an application can tolerate some loss of data during transmission		

D	when segments must arrive in a very specific sequence to be processed successfully
Q6	What type of information is included in the transport header?
Α	destination and source logical addresses
В	destination and source physical addresses
С	destination and source port numbers
D	encoded application data
Q7	Multicast address begin with?
A	FF0x
В	FFx
С	FBx
D	FFAx
Q8	Which one is the shortest and correct abbreviation for FE80:0000:0000:0100:0000:0000:0123?
А	FE80::1:123
В	FE80:1::0123
С	FE80:0:0:0100:0:0:0123
D	FE80:0:0:100:0:0:0:123
Q9	In 255.255.240.0, how many hosts there are?
A	4094
В	1
С	2005
D	1421
Q10	Logical parts' takes in place in which layer?
Α	Data-link
В	Physical
С	Network Network
D	Session
Q11	Network layer concerns with?
Α	data
В	packets
С	segment
D	frames
Q12	The Network Layer responsible for?
A	packet forwarding

В	data segmentin	data segmenting		
С	data encryption	data encryption		
D	frames translati	on		
Q13	What will happ	en if transmitter doesn't know o	destination mac addr	ess?
A	sender sends A	RP request		
В	sender encapsu	ulates packet to an addressless fra	ame	
С	sender will not	send frame		
D	sender forwards	s frame to a destination using IP a	ddress	
Q14	What is ARP s	poofing?		
A	sending secure	ARP request		
В	replying to ARF	request with the wrong mac addr	ess	
С	sending tracking	g algorithms for ARP request		
D	Destination made	c address identification		
	Mac table and	Mac table and LAN topology is displayed. What will the switch do with a frame?		
	Vlan	Mac Address	Туре	Ports
	1 1 1 1 1 Switch	0001.638a.0dcc 0001.9769.c6be 000d.bdbc.b455 0090.0c9e.1357 00e0.f95d.bae0 CSS312(config)#	DYNAMIC	Fa0/3 Fa0/1 Fa0/4 Fa0/2 Fa0/4
Q15		3		



А	Hub	
В	Access point	
С	Switch	
D	Router	
Q19	Refer to a figure 1. Indicate the reason why ping did not work?  SwitchCSS312#conf t Enter configuration commands, one per line. End with CNTL/Z. SwitchCSS312(config)#int SwitchCSS312(config)#interface vlan 1 SwitchCSS312(config-if)#ip address 192.168.1.1 255.255.255.0 SwitchCSS312(config-if)#exit SwitchCSS312(config)#ip defa SwitchCSS312(config)#ip default-gateway 192.168.1.2 SwitchCSS312# %SYS-5-CONFIG_I: Configured from console by console  SwitchCSS312#ping 192 .168.1.2  Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 192.168.1.2, timeout is 2 seconds:  Success rate is 0 percent (0/5)  SwitchCSS312#  CMH+F6 to exitCLIfocus	
A	Default-gateway should be 192.168.1.1	
В	The interface should be changed	
С	No shutdown command is not set	
D	All 5 packets dropped due to arp request	
Q20	What benefit does DHCP provide to a network?	
А	ip and domain name matching	
В	routing to remote networks	
С	secure remote connection	
D	automatic Ip address provision	
Q21	Select the mode of IOS that allows user to monitor and execute configurations	
A	Privileged Exec mode	
В	User Exec mode	
С	Global configuration mode	
D	Rommon mode	
Q22	Passwords can be used to restrict access to all or parts of the Cisco IOS. Select the modes and interfaces that can be protected with passwords.	
A	vty, console, privileged EXEC mode	
В	vty, svi, console	
С	vty, console, global configuration mode	
D	vty, aux, line configuration	

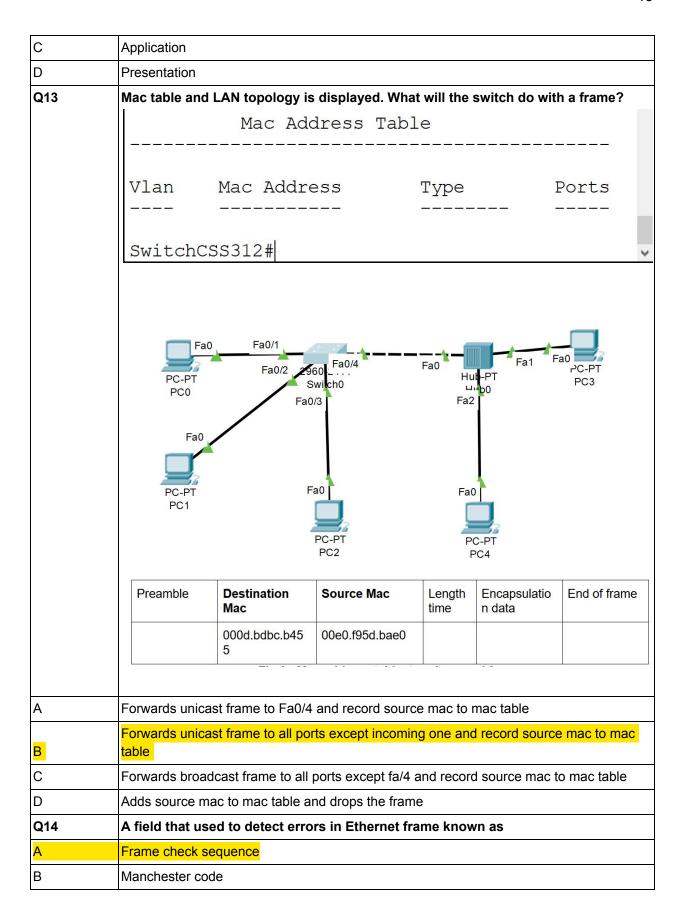
Q23	This type of network is designed to be accessible only by the organization's members, employees, or others with authorization
A	Intranet
В	Internet
С	LAN
D	WAN
Q24	Peer to peer network
A	both end devices work as servers
В	both end devices work as hosts
С	both end devices work as server and client simultaneously
D	none of the above
Q25	This layer of OSI model ensures that information sent by the application layer of one system will be readable by the application layer of another
А	session
В	presentation
С	application
D	physical

Variant 7					
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	VARIANT 7		
Q1	Which two definitions accurately describe the associated application layer protocol? (Choose two.)		
А	SMTP – transfers web pages from web servers to clients		
В	Telnet – provides remote access to servers and networking devices		
С	DNS – resolves Internet names to IP addresses		
D	FTP – transfers email messages and attachments		
Q2	If the default gateway is configured incorrectly on the host, what is the impact on communications?		
А	The host is unable to communicate on the local network.		
В	The host can communicate with other hosts on the local network, but is unable to communicate with hosts on remote networks		
С	The host can communicate with other hosts on remote networks, but is unable to communicate with hosts on the local network.		
D	There is no impact on communications		
Q3	A manufacturing company subscribes to certain hosted services from its ISP. The services that are required include hosted world wide web, file transfer, and e-mail. Which protocols represent these three key applications? (Choose three.)		
A	FTP		
В	HTTP		
С	DNS		
D	SMTP		
Q4	Which two tasks are functions of the presentation layer? (Choose two.)		
A	compression		
В	addressing		
С	<u>encryption</u>		
D	session control		
Q5	What is the complete range of TCP and UDP well-known ports?		
Α	0 to 255		
В	0 to 1023		
С	256 – 1023		
D	1024 – 49151		

Which two flags in the TCP header are used in a TCP three-way handshake to establish connectivity between two network devices? (Choose two.)
ACK
FIN
RST
SYN
Which three application layer protocols use TCP? (Choose three.)
SMTP SMTP
FTP
DHCP
HTTP
In IPv6 we did not use which type of address?
Broadcast
Last useful
First useful
Multicast
How many bits in IPv6?
32
16
8
128
What is the main equipment which are using on Layer 3?
switch
router
hub
server
Which layer of OSI model has IP implements?
Transport
Network
Presentation
Session
Which one is from lower layer?
Network
Session



С	preamble
D	EtherType field
Q15	What will receiving device do if it received a jumbo frame?
A	drops the frame
В	sends a source device to resend the frame
С	
D	device will be rebooted
Q16	What type of fiber used in a long haul communication?
A	SM
В	MM
С	MMgrid
D	none of the above
Q17	Select OSI layer that works with two sub-layers; LLC and MAC
Α	Transport
В	Network
С	Data-Link Data-Link
D	Physical
Q18	When automatic medium-dependent interface crossover (auto-MDIX) is enabled on an interface means
A	the interface automatically detects the required cable connection type (straight through or crossover)
В	the LED of interface will light on with red color when wrong type of connection type was performed
С	the LED will blink on interface when wrong type of connection type was performed
D	the interface will automatically find Mac addresses and forwards to correct host
Q19	Passwords can be used to restrict access to all or parts of the Cisco IOS. Select the modes and interfaces that can be protected with passwords.
A	vty, console, privileged EXEC mode
В	vty, svi, console
С	vty, console, global configuration mode
D	vty, aux, line configuration
Q20	What command can be used on a Windows PC to see the IP configuration of that computer?
A	show ip interface brief

С	ping
D	show interfaces
Q21	What is the function of login command when setting passwords for console?
Α	to enable password encryption
В	to check password syntaxis
С	request of the password before entering into a configuration using console connection
D	request of the password before entering into a configuration using remote connection
Q22	Short representation of command copy running-config startup-config
Α	сору
В	write
С	copy write
D	save
Q23	This utility determine whether a specific IP address is accessible, by sending a packet to the specified address and waiting for a reply
A	ping
В	traceping
С	arp
D	DHCP
Q24	Select an intermediate device
A	Hub
В	Fiber
С	IOS software complex
D	console cable
Q25	Which device is known as internetworking device?
A	Router
1	
В	Switch
С	Switch  Computer

Variant 8					
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	VARIANT 8		
Q1	Which two tasks are functions of the presentation layer? (Choose two.)		
A	compression		
В	addressing		
С	encryption		
D	session control		
Q2	Which address provides a unique host address for data communications at the internet layer?		
A	data-link address		
В	logical address		
С	Layer 2 address		
D	physical address		
Q3	A web client is sending a request for a webpage to a web server. From the perspective of the client, what is the correct order of the protocol stack that is used to prepare the request for transmission?		
A	HTTP, IP, TCP, Ethernet		
В	HTTP, TCP, IP, Ethernet		
С	Ethernet, TCP, IP, HTTP		
D	Ethernet, IP, TCP, HTTP		
Q4	When would it be more efficient to use SMB to transfer files instead of FTP?		
A	When a peer-to-peer application is required		
В	When the host devices on the network use the Windows operating system		
С	When downloading large numbers of files from the same server		
D	When uploading the same file to multiple remote servers		
Q5	What type of information is included in the transport header?		
А	destination and source logical addresses		
В	destination and source physical addresses		
С	destination and source port numbers		
D	encoded application data		
Q6	What is a socket?		
Α	the combination of the source and destination IP address and source and destination		

	Ethernet address
	the combination of a source IP address and port number or a destination IP address and
B	port number
С	the combination of the source and destination sequence and acknowledgment numbers
D	the combination of the source and destination sequence numbers and port numbers
Q7	Which two characteristics are associated with UDP sessions? (Choose two.)
A	Destination devices receive traffic with minimal delay
В	Transmitted data segments are tracked
С	Destination devices reassemble messages and pass them to an application.
D	Received data is unacknowledged
Q8	In 255.255.240.0, how many hosts there are?
A	4094
В	1
С	2005
D	1421
Q9	Multicast address begin with?
A	FF0x
В	FFx
С	FBx
D	FFAx
Q10	Which IP version does not has a subnet mask?
Α	ICMP
В	ID 4
1	IPv4
С	IPv6
C D	
	IPv6
D	IPv6 IPv12
D <b>Q11</b>	IPv6 IPv12 The Network Layer responsible for?
D <b>Q11</b> A	IPv6 IPv12 The Network Layer responsible for? packet forwarding
D <b>Q11</b> A B	IPv6 IPv12 The Network Layer responsible for? packet forwarding data segmenting
D Q11 A B C	IPv6 IPv12 The Network Layer responsible for? packet forwarding data segmenting data encryption
D Q11 A B C	IPv6 IPv12 The Network Layer responsible for? packet forwarding data segmenting data encryption frames translation
D Q11 A B C D Q12	IPv6 IPv12 The Network Layer responsible for? packet forwarding data segmenting data encryption frames translation Which one is not function of Network Layer?

D	none of the mentioned
Q13	What first determines Network Layer?
A	IPv4
В	IPv6
С	IPv4 and IPv6
D	IP phone
Q14	Which switching method uses the CRC value in a frame
A	Store and forward
В	Cut through
С	Fast forward
D	Fragment free
Q15	What is ARP spoofing?
А	sending secure ARP request
В	replying to ARP request with the wrong mac address
С	sending tracking algorithms for ARP request
D	Destination mac address identification
Q16	This command help displaying an arp table in host devices
А	show ip arp
В	show arp table
С	arp -d
D	arp -a
Q17	Crossover UTP cable
Α	has both ends connected in A standard
В	has both ends connected in B standard
С	has both ends connected in different from each other standards
D	used RJ11 connector type
Q18	PC A sends a data to a remote host. What will be the destination mac address of the frame incoming from host PC A? (assume arp table is not empty)
A	Mac address of default gateway
В	Mac address of destination device in a remote network
С	mac address of the switch interface
D	broadcast mac address
Q19	What is type of frame field indicates source and destination node addresses on a media?
A	Туре

В	Control						
С	Data						
D	Addressing						
Q20	Short representation of command copy running-config startup-config						
A	сору						
В	write						
С	copy write						
D	save						
Q21	Select the mode of IOS that allows user to monitor and execute configurations						
A	Privileged Exec mode						
В	User Exec mode						
С	Global configuration mode						
D	Rommon mode						
Q22	Select the mode of IOS which referred as "read-only"						
A	Privileged Exec mode						
В	User Exec mode						
С	Global configuration mode						
D	Rommon mode						
Q23	Formal description of a set of rules and conventions that govern how devices on a network exchange information						
A	algorithms						
В	protocols						
С	standards						
D	models						
Q24	This layer of OSI model ensures that information sent by the application layer of one system will be readable by the application layer of another						
A	session						
В	presentation						
С	application						
D	physical						
Q25	This type of network is designed to be accessible only by the organization's members, employees, or others with authorization						
	A. Intranet B. Internet C. LAN D. WAN						

## **Answers**

Var5	Correct answers	6 var	Correct answers	7 var	Correct Answers	8 var	correct answers
Q1	В	Q1	С	Q1	B, C	Q1	A, C
Q2	В	Q2	Α	Q2	В	Q2	В
Q3	С	Q3	Α	Q3	A, B, D	Q3	В
Q4	В	Q4	В	Q4	A, C	Q4	С
Q5	В	Q5	С	Q5	В	Q5	С
Q6	С	Q6	С	Q6	A, D	Q6	В
Q7	А	Q7	А	Q7	A, B, D	Q7	A, D
Q8	D	Q8	D	Q8	А	Q8	А
Q9	A	Q9	А	Q9	D	Q9	А
Q10	С	Q10	С	Q10	В	Q10	С
Q11	D	Q11	В	Q11	В	Q11	А
Q12	С	Q12	А	Q12	А	Q12	D
Q13	D	Q13	А	Q13	В	Q13	С
Q14	D	Q14	В	Q14	А	Q14	А
Q15	A	Q15	D	Q15	А	Q15	В
Q16	В	Q16	А	Q16	А	Q16	D
Q17	D	Q17	А	Q17	С	Q17	С
Q18	С	Q18	В	Q18	А	Q18	А
Q19	A	Q19	С	Q19	А	Q19	D
Q20	С	Q20	D	Q20	В	Q20	В
Q21	В	Q21	А	Q21	С	Q21	А
Q22	В	Q22	А	Q22	В	Q22	В
Q23	В	Q23	А	Q23	А	Q23	С
Q24	А	Q24	С	Q24	А	Q24	В
Q25	С	Q25	В	Q25	А	Q25	А