

A Cisco Catalyst switch has 24 ports, numbered 0/1 through 0/24. Ten PCs connect to the ten lowest numbered ports, with those PCs working and sending data over the network. The other ports are not connected to any device. Which of the following answers are correct related to the result displayed by the show interfaces status command?

Select one or more:

- a. Port Ethernet 0/15 is in a connected state
- b. Port Ethernet 0/2 is in a not connected state
- c. Port Fast Ethernet 0/7 in connected state
- d. Port Fast Ethernet 0/5 is in a connected state
- e. Port Fast Ethernet 0/11 is in a connected state

Which of the following statement best describe what a switch does with a frame destined for an unknown address by the MAC address table?

Select one:

- a. It forwards out the frame to all interfaces in the same LAN except for the incoming interface
- b. It forwards the frame out the one interface identified by the matching entry in the MAC address table
- c. It drops the frame
- d. It compares the frame's incoming interface to the source MAC entry in the MAC address table
- e. It compares the destination IP address to the destination MAC address



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Question 3

You answered

Mark out of 1.00

Flag question

What are the function/s of a switch?

Select one or more:

- a. Maintain Routing table
- b. Address learning
- c. Loop avoidance
- d. Forward / Filter decisions
- e. Maintain ARP table



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## Question 2

Not yet answered

Marked out of 1.0

Flag question

Which of the following statement best describe what a switch does with a frame destined for an unknown address by the MAC address table?

Select one:

- a. It forwards out the frame to all interfaces in the same LAN except for the incoming interface
- b. It forwards the frame out the one interface identified by the matching entry in the MAC address table
- c. It drops the frame
- d. It compares the frame's incoming interface to the source MAC entry in the MAC address table
- e. It compares the destination IP address to the destination MAC address

Quiz navigation

Recent attempts

Time left: 05:24:44

1	2	3	4	5
6	7	8	9	10

11	12	13	14	15
16	17	18	19	20

21	22	23	24	25
26	27	28	29	30

Submit



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er answered

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ng question

What is/are the main task/s of a switch?

Select one or more:

- a. To determine how to handle incoming frames by maintaining the MAC address table
- b. To connect networks together so that they function as a single network segment
- c. To forward packets across different computer networks
- d. To intercept user requests from the internal secure network and then process that request on behalf of the user
- e. To examine packets and accept or deny entry



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Question 5

Not yet answered

Marked out of 1.0

P Flag question

Which of the following is/are true about Network Switches?

Select one or more:

- They do not allow frames that are destined for the local network to cross the Router.
- They divide networks into segments.
- They filter frames by inspecting MAC addresses.
- They are able to choose the best route to a remote destination.



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6  
Question  
of 10  
Position  
Which command will show the MAC addresses of Computers / Stations which are connected to switch ports?

Select one or more:

- show arp
- show switchport
- show table
- show mac-address-table
- show mac address-table



Question 7

Not yet answered

Marked out of 1.0

 Flag question

+++++

01:11:12: %PM-4-ERR\_DISABLE: psecure-violation error detected on Fa0/8, putting Fa0/8 in err-disable state

01:11:12: %PORT\_SECURITY-2-PSECURE\_VIOLATION: Security violation occurred, caused by MAC address 0011.a0d4.12a0 on port FastEthernet0/8.

01:11:13: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/8, changed state to down

01:11:14: %LINK-3-UPDOWN: Interface FastEthernet0/8, changed state to down

+++++

Which of the following cause the above error message to appear?

Select one:

- Port security was enabled on the switch port, and an unauthorized connection was made on switch port Fa0/8 by device 0011.a0d4.12a0
- Port security was enabled on the switch port, and an unauthorized connection was made on switch port Fa0/8 by unknown device
- NAT was enabled on a router, and a private IP address arrived on switch port Fa0/8
- A host with an invalid IP address was connected to a switch port that was previously leased
- An unauthorized user tried to telnet to the switch through switch port Fa0/8
- Another switch was connected to this switch port with the wrong cable



Question 8

Not yet answered

Marked out of 1.0

Flag question

Which set of commands is recommended to prevent the use of a hub in the access port of a network switch?

Select one:

- `switch(config-if)#switchport mode trunk  
switch(config-if)#switchport port-security mac-address 1`
- `switch(config-if)#switchport mode access  
switch(config-if)#switchport port-security maximum 1`
- `switch(config-if)#switchport mode trunk  
switch(config-if)#switchport port-security maximum 1`
- `switch(config-if)#switchport mode access  
switch(config-if)#switchport port-security mac-address 1`



9

answered

out of 1.0

question

Which internal switching method drops the frames that fail the FCS check?

Select one:

- Fragment Free switching
- Ingress port buffering
- Cut-through switching
- Store-and-Forward switching
- borderless switching



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ed out of 1.0

ng question

What is the Cisco proprietary method for trunk encapsulation ?

Select one:

- a. EIGRP
- b. IEEE 802.1Q
- c. DSL
- d. ISL
- e. CDP



THE EXAMINER

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Which of the following provide inter-switch VLAN communication

Select one or more:

- a. 802.1Q
- b. 802.1P
- c. VTP
- d. 802.3Z
- e. ISL



Question 12

Not yet answered

Marked out of 1.0

\* Flag question

Which of the following are benefits of VLANs ?

Select one or more:

- a. They increase the size of broadcast domains while decreasing the number of collision domains
- b. They can enhance network security
- c. They increase the size of collision domains
- d. They increase the number of broadcast domains while decreasing the size of the broadcast domains
- e. They allow logical grouping of users by function



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Question 13

Not yet answered

Marked out of 1.0

Flag question

Which of the following statements are true about Tagging Ethernet Frames ?

Select one or more:

- a. Frame tagging is the process of adding a VLAN identification header to the frame
- b. Switches add VLAN tags to the frames before placing them into trunk links and remove the tags before forwarding frames through non-trunk ports
- c. DSL and VTP are tagging protocols
- d. Switches tag frames to identify the VLAN to which they belong
- e. Tagging is used to properly transmit frames through an access link

Next page



Question 14

Not yet answered

Marked out of 1.0

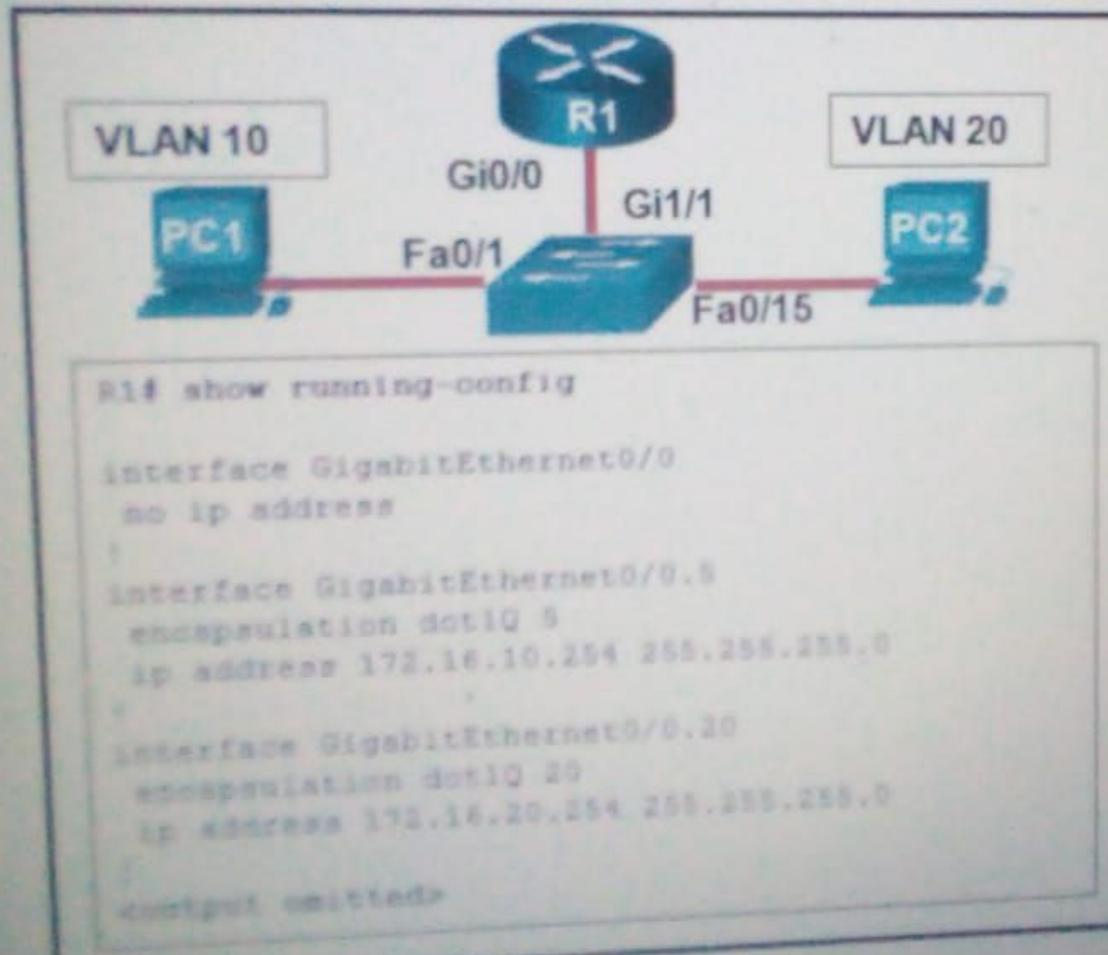
Flag question

In a LAN, which of the following terms best equates to the term VLAN?

Select one or more:

- Broadcast domain
- Subnet
- Trunk
- Collision Domain
- Single Switch

A network administrator is verifying the configuration of inter-VLAN routing. Users complain that PC2 cannot communicate with PC1. Based on the following output, what is the possible cause of the problem?





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Switch SW1 sends a frame to switch SW2 using 802.1Q trunking. Which of the answers describes how SW1 changes or adds to the Ethernet frame before forwarding the frame to SW2?

Select one:

- Inserts a 4-byte header and does change the MAC addresses
- Inserts a 4-byte header and does not change the MAC addresses
- Encapsulates the original frame behind an entirely new Ethernet header
- Decapsulates the original frame behind an entirely new Ethernet header
- Add VLAN ID field, which identifies the VLAN associated with the frame.
- None of the above



17

answered

1 out of 1.0

question

Quiz

A network administrator is using the router-on-a-stick method to configure inter-VLAN routing. Switch port Gi1/1 is used to connect to the router. Which command should be entered to prepare this port for the task?

Select one:

- Router(config)# interface gigabitethernet 1/1  
Router(config-if)# switchport mode trunk
- Router(config)# switchport mode trunk
- Switch(config)# interface gigabitethernet 1/1  
Switch(config-if)# switchport mode Access  
Switch(config-if)# switchport Access VLAN ALL
- Switch(config)# switchport mode trunk
- Switch(config)# interface gigabitethernet 1/1  
Switch(config-if)# switchport mode trunk

Next



Question 18

Not yet answered

Marked out of 1.0

Flag question

Which statement(s) about IPv6 addresses is/are true?

1. Leading zeros are required.
2. Two colons (::) are used to represent successive hexadecimal fields of zeros.
3. Two colons (::) are used to separate fields.

Select one:

- 1 Only
- 2 Only
- 1 and 3 Only
- 1 and 2 Only
- 2 and 3 Only

**Question 20**

Not yet answered

Marked out of 1.0

 Flag question

Which of the following field in IPv4 datagram is not related to fragmentation?

Select one:

- TOS
- Offset
- Flags
- Identification Number

The fields that are related to fragmentation and reassembly of an IP datagram are the identification, flags, and fragmentation offset fields



22

Unanswered  
out of 1.0  
question

A router with a Maximum Transmission Unit (MTU) of 196 bytes has received an IP packet of size with an IP header of length 20 bytes. Some values of the fields in the IP header of the fragments are given below.

20	176
----	-----

20	176
----	-----

20	148
----	-----

Fragment  
Offset

0

22

44

What are the values of D bit and M bit respectively of the last fragment?

Select one:

- 1, 0
- 0, 1
- 1, 1
- 0, 0

If the fragmentation offset has a value of 160 in decimal.

Select one:

- The datagram is 160 Bytes in size.
- The first byte of the datagram is byte 1280.
- The first byte of the datagram is byte 160.
- The datagram has not been fragmented.
- The first byte of the datagram is byte 20



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## Question 25

Not yet answered

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Flag question

If the first byte of a Datagram is 4000

Select one:

- The fragmentation offset of the datagram is 4000
- The datagram has not been fragmented
- The fragmentation offset of the datagram is 32000
- The datagram is 2000 Bytes in size.
- The fragmentation offset of the datagram is 500.

An IP Packet/ Datagram has arrived with the following information in the header. (in hexadecimal)



4800 01A0 005A 0000 0906 0000 5A3C 0209 449C 5707

VER 4 bits	HLEN 4 bits	Service type 8 bits	Total length 16 bits						
Identification 16 bits		Flags 3 bits	Fragmentation offset 13 bits						
Time to live 8 bits	Protocol 8 bits	Header checksum 16 bits							
Source IP Address									
Destination IP Address									
Option									

Identification 16 bits		Flags 3 bits	Fragmentation offset 13 bits
Time to live 8 bits	Protocol 8 bits	Header checksum 16 bits	
Source IP Address			
Destination IP Address			
Option			

Find the source network address.

Select one:

- 164.12.14.7
- 90.0.0.0
- 90.60.2.9
- 164.12.0.0
- 90.60.0.0

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What does a VLAN do?

Select one or more:

- Provides multiple collision domains on one switch port
- Provide network segmentation
- Acts as the fastest port to all servers
- Breaks up broadcast domains in a layer 2 switch internetwork
- Breaks up collision domains in a layer 2 switch internetwork

QUESTION

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You are a system administrator and you want to deny access to a group of computers with addresses 202.30.10.80 to 202.30.10.95. Which wildcard mask would you use?

Select one:

- 0.0.255.255
- 0.0.0.255
- 0.0.0.1111
- 0.0.0.15
- 0.0.0.240

ANSWER

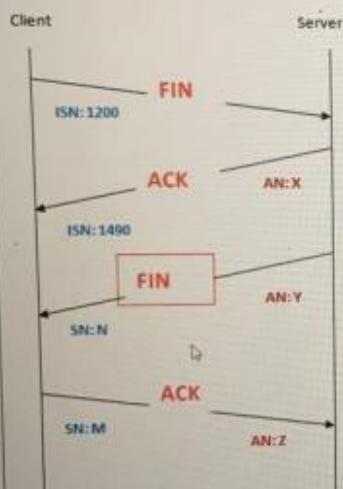
## Question 2

Not yet answered

Marked out of 2.0

 Flag question

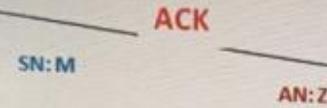
By considering the FIN segment (marked in red colour box) below, identify the value of control field in binary of a TCP header during a connection termination process between a client and a server.



The Control fields of TCP header:

URG: Urgent pointer is valid  
ACK: Acknowledgment is valid  
PSH: Request for push

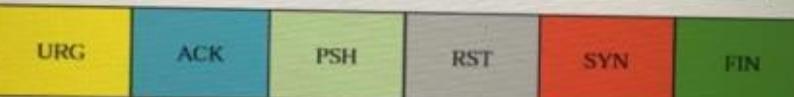
RST: Reset the connection  
SYN: Synchronize sequence numbers  
FIN: Terminate the connection



The Control fields of TCP header:

URG: Urgent pointer is valid  
ACK: Acknowledgment is valid  
PSH: Request for push

RST: Reset the connection  
SYN: Synchronize sequence numbers  
FIN: Terminate the connection



Select one:

- 010000
- 010001
- 000001
- 000010

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Finish attempt ...

Time left 1:55:50

MULTIPLE CHOICE

1	2	3
9	10	11
17	18	19
25	26	27
28		

ESSAY TYPE QUESTI

31 32

FEEDBACK

33



What does a VLAN do?

Select one or more:

- Provides multiple collision domains on one switch port
- Provide network segmentation
- Acts as the fastest port to all servers
- Breaks up broadcast domains in a layer 2 switch internetwork
- Breaks up collision domains in a layer 2 switch internetwork

**Question 2**

Not yet answered

Marked out of 2.0

Flag question

Five employees in the production department work on different shifts with their laptops and share the same Ethernet port in the network switch of the office. Which set of commands would allow only these laptops to use the Ethernet port and create violation log entry without shutting down the port if a violation occurs?

Select one:

- switchport port-security maximum 5  
switchport port-security mac-address sticky  
switchport port-security violation protect
- switchport mode access  
switchport port-security maximum 5  
switchport port-security mac-address sticky
- switchport mode access  
switchport port-security  
switchport port-security maximum 5  
switchport port-security mac-address sticky  
switchport port-security violation restrict
- switchport mode access  
switchport port-security
- switchport port security  
switchport mode access  
switchport port-security maximum 5  
switchport port-security mac-address sticky  
switchport port-security violation protect

The following is a dump of a TCP header in hexadecimal format.

05A50017 00000001 00000000 D00207FF 00000000

Source port address 16 bits		Destination port address 16 bits	
Sequence number 32 bits			
Acknowledgement number 32 bits			
HLEN 4 bits	Reserved 6 bits	U R A C P K R H S T F N I N	Window size 16 bits
Checksum 16 bits		Urgent pointer 16 bits	
Options & padding			

What is the value of the window field in Bytes (in Decimal) ?

Answer: 2047



tion 4

not answered

Marked out of 2.0

Flag question

The following is a dump of a TCP header in hexadecimal format.

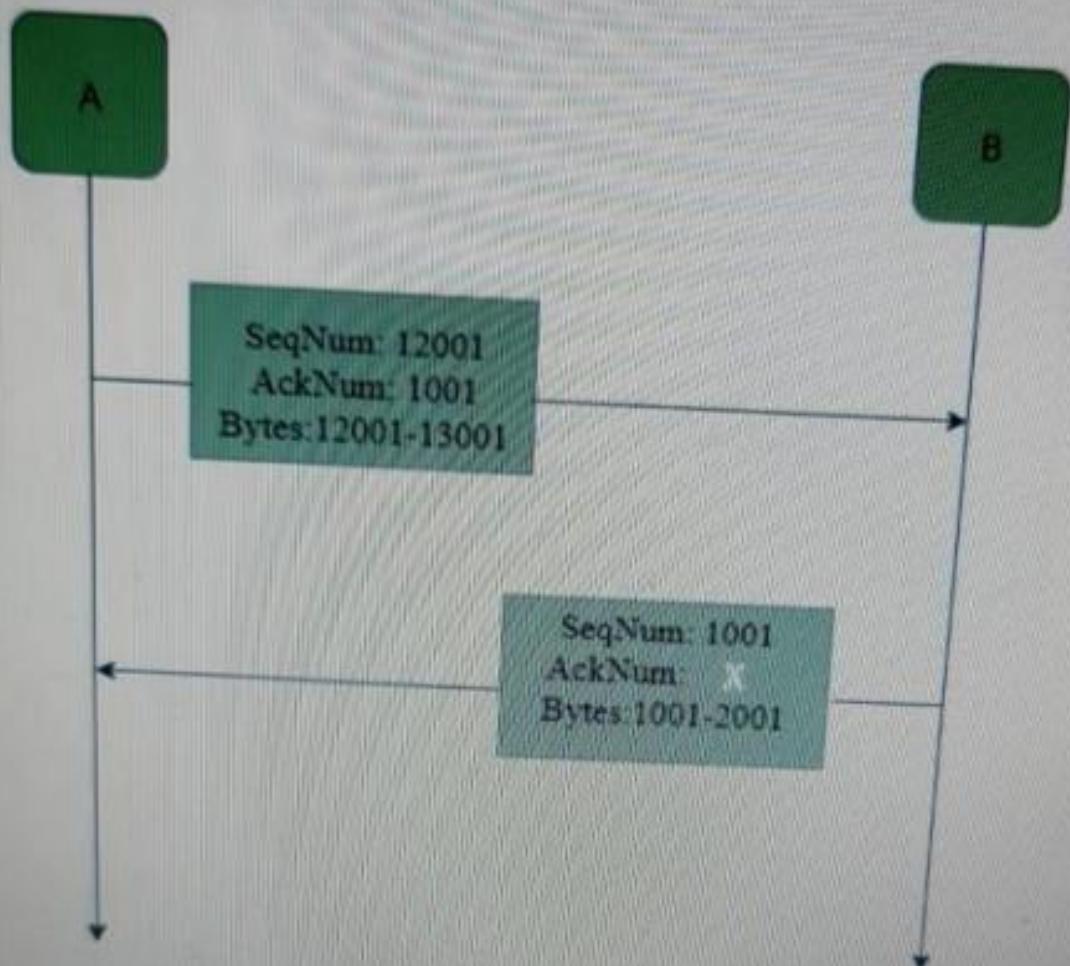
05A50017 00000001 00000000 D00207FF 00000000

Source port address 16 bits		Destination port address 16 bits	
Sequence number 32 bits			
Acknowledgement number 32 bits			
HLEN 4 bits	Reserved 6 bits	U R A C P S R S S Y F I	Window size 16 bits
Checksum 16 bits		Urgent pointer 16 bits	
Options & padding			

What is the value of the window field in Bytes (in Decimal) ?

Answer: 2047

Machine A and B of the following diagram is in which TCP state ?



Select one:

ESTABLISHED

CLOSE\_WAIT

TIME\_WAIT

ACTIVE

ACK RECEIVED

TRANSMITTING



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Which of the following VTP modes allow VLANs to be configured on a switch?

Select one or more:

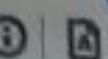
- Server
- Dynamic
- Static
- Transparent
- Client

Which of the following statements about ACLs is/are true?

Select one or more:

- ACLs will check the packet against all entries looking for a match.
- ACLs go bottom-up through the entries looking for a match
- An ACL have must at least one permit action, else it just blocks all traffic.
- ACLs go top-to-bottom through the entries looking for a match
- An ACL has a implicit permit at the end of ACL.





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A network administrator is using the router-on-a-stick method to configure inter-VLAN routing. Switch port Gi1/1 is used to connect to the router. Which command should be entered to prepare this port for the task?

Select one:

- Router(config)# switchport mode trunk
- Switch(config)# interface gigabitethernet 1/1  
Switch(config-if)# switchport mode Access  
Switch(config-if)# switchport Access VLAN ALL
- Router(config)# interface gigabitethernet 1/1  
Router(config-if)# switchport mode trunk
- Switch(config)# interface gigabitethernet 1/1  
Switch(config-if)# switchport mode trunk
- Switch(config)# switchport mode trunk

Next page



Section 3

1 yet answered  
marked out of 2.0

Flag question

A network administrator needs to configure a standard ACL so that only the workstation of the administrator with the IP address 192.168.15.23 can access the virtual terminal of the main router. Which two configuration commands can achieve the task?

Select one or more:

- Router1(config)# access-list 10 permit 192.168.15.23 0.0.0.255
- Router1(config)# access-list 10 permit 192.168.15.23 255.255.255.255
- Router1(config)# access-list 10 permit 192.168.15.23 0.0.0.0
- Router1(config)# access-list 10 permit host 192.168.15.23
- Router1(config)# access-list 10 permit 192.168.15.23 255.255.255.0

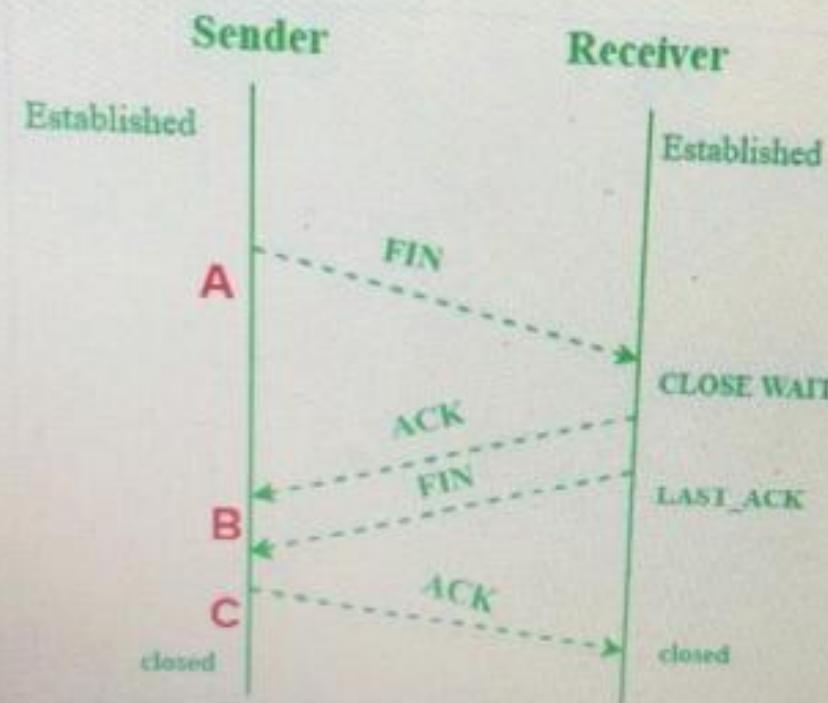
Question 3

Not yet answered

Marked out of 2.0

Flag question

Identify the TCP State denoted by "A".



Select one:

- TIME\_WAIT\_1
- FIN\_WAIT\_2
- TIME\_WAIT
- FIN\_WAIT\_1
- TIME\_WAIT\_2

Match the correct TCP Timers for P,Q and R respectively.

P - To deal with a zero-window-size deadlock situation, TCP uses this timer. When the sending TCP receives an acknowledgment with a window size of zero, it starts this timer.

Q - This timer is used to prevent a long idle connection between two TCPs.

R - This timer starts after sending the last Ack for 2nd FIN and closing the connection.

Select one:

- Retransmission, Time-waited, Keepalive
- Retransmission, Keepalive, Time-waited
- Persistence, Keepalive, Time-waited
- Persistence, Time-waited, Keepalive
- Retransmission, Keepalive, Persistence

Which of the following VTP modes allow VLANs to be configured on a switch?

Select one or more:

- Server
- Dynamic
- Static
- Transparent
- Client

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if 2.0  
tion

```
*****  
01:11:12: %PM-4-ERR_DISABLE: psecure-violation error detected on Fa0/8, putting Fa0/8 in err-disable state  
01:11:12: %PORT_SECURITY-2-PSECURE_VIOLATION: Security violation occurred, caused by MAC address 0011.a0d4.12a0 on port  
FastEthernet0/8.  
01:11:13: %LINEPROTO-5-UPDOWN: Line protocol on interface FastEthernet0/8, changed state to down  
01:11:14: %LINK-3-UPDOWN: Interface FastEthernet0/8, changed state to down  
*****
```

Which of the following cause the above error message to appear?

Select one:

- Port security was enabled on the switch port, and an unauthorized connection was made on switch port Fa0/8 by device 0011.a0d4.12a0
- An unauthorized user tried to telnet to the switch through switch port Fa0/8
- Another switch was connected to this switch port with the wrong cable
- Port security was enabled on the switch port, and an unauthorized connection was made on switch port Fa0/8 by unknown device
- NAT was enabled on a router, and a private IP address arrived on switch port Fa0/8
- A host with an invalid IP address was connected to a switch port that was previously unused



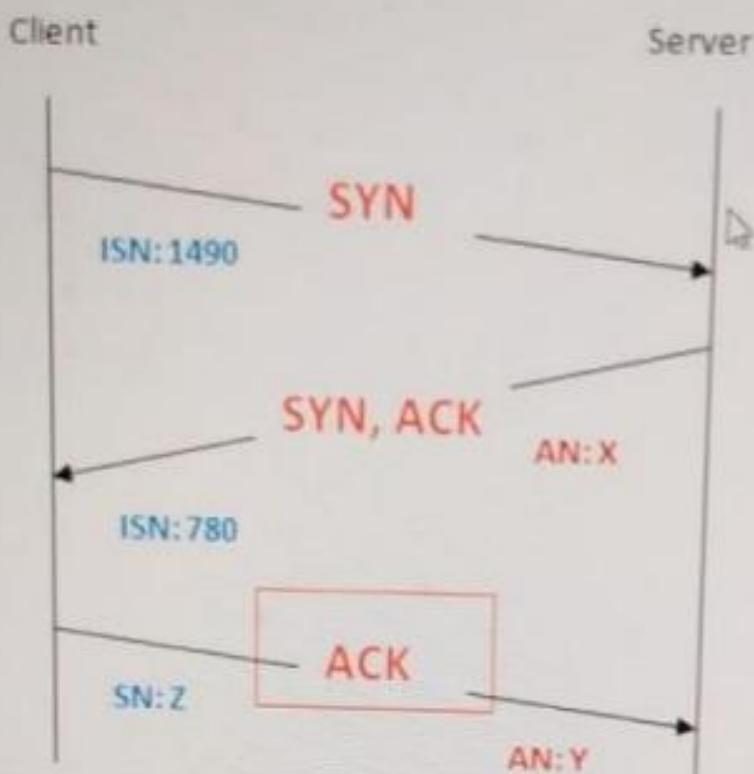
Which of the following access-list commands permit packets going from host 10.1.1.1 to all web servers whose IP addresses begin with 172.16.5?

Select one or more:

- access-list 101 permit tcp host 10.1.1.1 172.16.5.0 0.0.0.255 eq www
- access-list 23 permit tcp host 10.1.1.1 eq www 172.16.5.0 0.0.0.255
- access-list 101 permit tcp host 10.1.1.1 172.16.5.0 0.0.0.255 eq http
- access-list 25 permit ip host 10.1.1.1 eq www 172.16.5.0 0.0.0.255
- access-list 101 permit ip host 10.1.1.1 172.16.5.0 0.0.0.255 eq www
- access-list 1951 permit ip host 10.1.1.1 172.16.5.0 0.0.0.255 eq 80
- access-list 1951 permit ip host 10.1.1.1 172.16.5.0 0.0.0.255 eq www



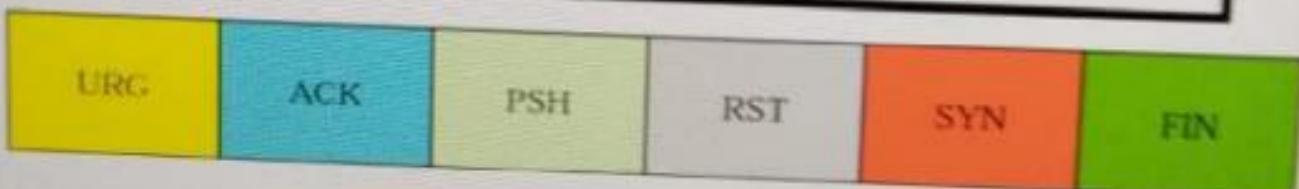
By considering the ACK segment (marked in red colour box) bellow, identify the connection establishment process between a client and a server.



The Control fields of TCP header.

URG: Urgent pointer is valid  
ACK: Acknowledgment is valid  
PSH: Request for push

RST: Reset the connection  
SYN: Synchronize sequence numbers  
FIN: Terminate the connection



Select one:

- 000010
- 000001
- 010000
- 001010



## Question 9

Not yet answered

Marked out of 2.0

 Reg question

Consider a TCP client and a TCP server running on two different machines. After completing data transfer, the TCP client calls close to terminate the connection and a \_\_\_\_\_P\_\_\_\_\_ segment is sent to the TCP server. Server-side TCP responds by sending an \_\_\_\_\_Q\_\_\_\_\_ which is received by the client-side TCP.

Identify 'P' and 'Q' respectively

Select one:

- FIN & ACK
- FIN & RST
- ACK & FIN
- FIN & FIN+ACK
- FIN & FIN

[Next page](#)



## Question 10

Not yet answered

Marked out of 2.0

Flag question

Which of the following statement/s is/are TRUE regarding the Spanning Tree Algorithm ?

Select one or more:

- A designated port is the port that has the lowest port cost value to get on a given network, compared to other ports on that segment.
- Path cost is an accumulated value of the port costs from the Root Bridge to other switches in the network
- STP (Spanning Tree Protocol) automatically removes layer 2 switching loops by creating the redundant links.
- The Root port is the port that directly connects to the Root Bridge, or has the shortest path to the Root Bridge.
- A non-designated port is a port that has the higher port cost than the designated port. STP marks the non-designated port as the forwarding port.

[Next page](#)

Finish

Time

MULT

1
9

17
26

25
28

ESSAY TY

31
32



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Which of the following fields cannot be compared based on an extended IP ACL?

Select one or more:

- Protocol
- Filename for FTP transfers
- URL
- Source and Destination IP addresses
- Credentials for remote access

DELL



A switch receives a frame with a unicast destination MAC Address, but the switch does not have an entry for that MAC in its MAC address table. What is the default action of the switch?

Select one:

- The switch will forward the frame out every port, except the one it came in on
- The frame is sent out any port that the switch has no MAC table entry for
- The switch will send an ARP Request for the MAC address of the destination
- The frame is filtered

Next



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ng question

A switch receives a frame with a unicast destination MAC Address, but the switch does not have an entry for that MAC in its MAC table. What is the default action of the switch?

Select one:

- The switch will forward the frame out every port, except the one it came in on
- The frame is sent out any port that the switch has no MAC table entry for
- The switch will send an ARP Request for the MAC address of the destination
- The frame is filtered

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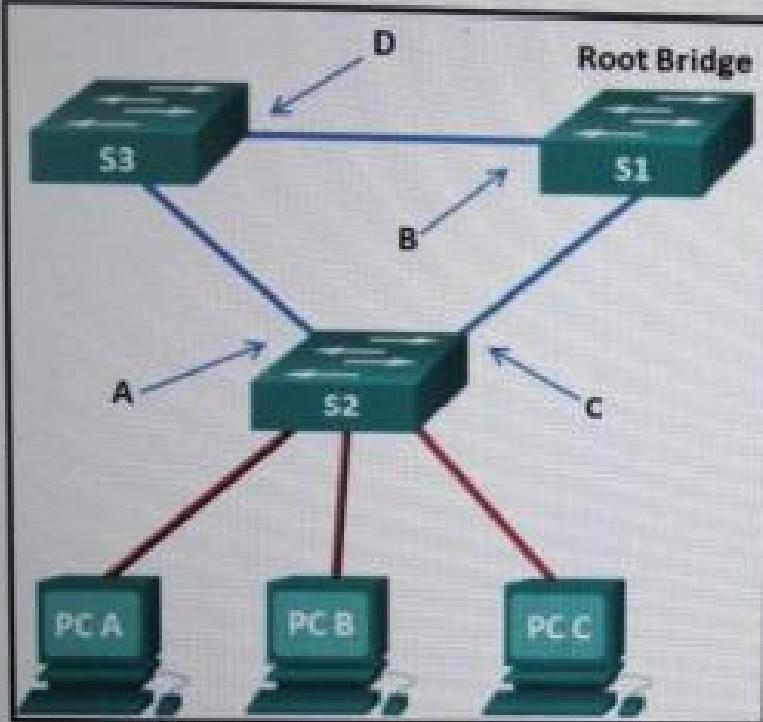
What does a VLAN do?

Select one or more:

- Breaks up broadcast domains in a layer 2 switch internetwork
- Provide network segmentation
- Breaks up collision domains in a layer 2 switch internetwork
- Provides multiple collision domains on one switch port
- Acts as the fastest port to all servers

Next page

All the Switches are connected with the same speed links. Which of the following port/s can be Root Port/s?



Select one:

- C and D Only
- A, C and D Only
- A and D Only
- B, C and D Only
- A and C Only

Which of the following are transitory port states used only during the process of STP convergence?

Select one or more:

- Learning
- Blocking
- Forwarding
- Discarding
- Listening

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A switched network is using Inter-Switch Link (ISL) as VLAN trunking protocol. Which following must be a part of ISL header file?

Select one:

- Source Port Number
- Destination port number
- VLAN Name
- VLAN ID
- Source Network Address

A network administrator is verifying the configuration of inter-VLAN routing. Users complain that PC2 cannot communicate with PC1. Based



```
Switch# show running-config
!
interface GigabitEthernet0/0
no ip address
!
interface GigabitEthernet0/0.5
encapsulation dot1Q 5
ip address 172.16.10.254 255.255.255.0
!
interface GigabitEthernet0/0.20
encapsulation dot1Q 20
ip address 172.16.20.254 255.255.255.0
!
output omitted>
```

on the following output, what is the possible cause of the problem?

Select one:

- The command `Interface GigabitEthernet0/0.5` was entered incorrectly
- There is no IP address configured on the interface `Gi0/0`
- The encapsulation `dot1Q 5` command contains the wrong VLAN
- `Gi0/0` is not configured as a trunk port
- The `no shutdown` command is not entered on subinterfaces

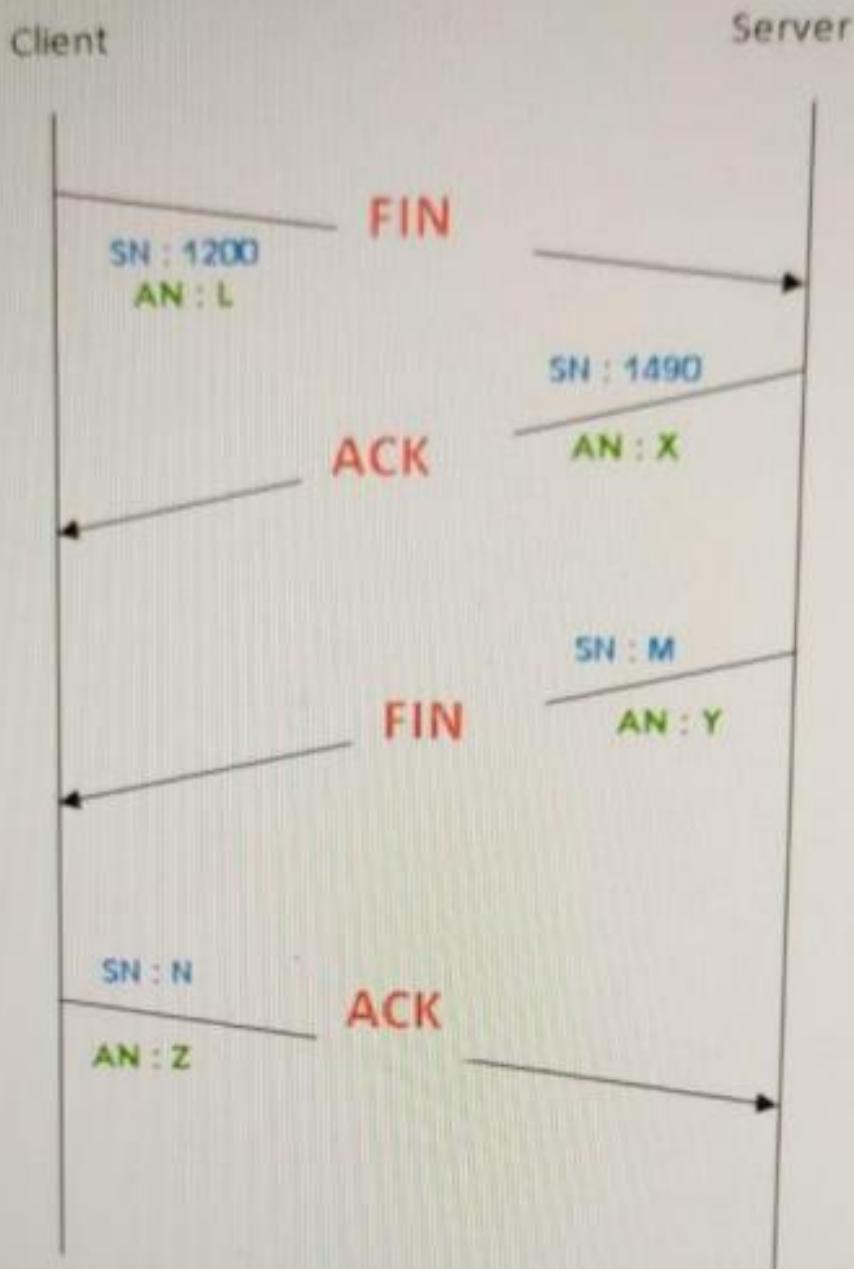
[Next page](#)

DELL

7

answered  
out of 2.0  
question

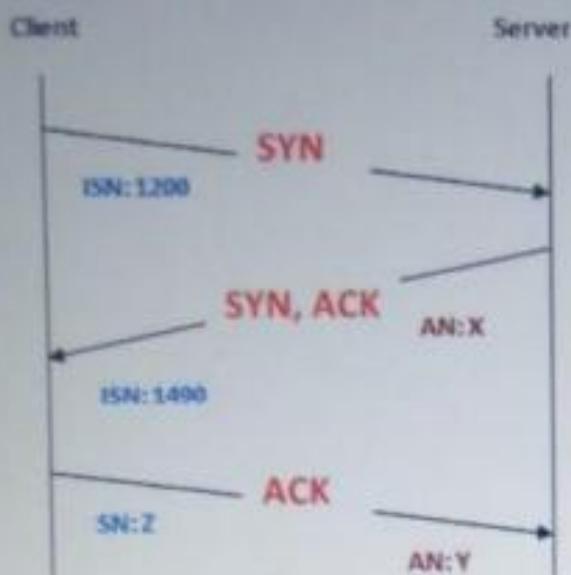
Identify the values of X,Y,Z respectively for the following con



Select one:

- 1201,1201,1202
- 1201,1202,1492
- 1201,1202,1491
- 1201,1201,1492

Identify the values of X,Y,Z respectively for the following connection establishment process between a client and a server.



Select one:

- 1491,1201,1201
- 1201,1490,1201
- 1201,1491,1201
- 1491,1801,1491

What do the following statements in an extended access list accomplish?

access-list 101 deny TCP 172.16.4.0 0.0.0.255 172.16.3.0 0.0.0.255 eq 21

access-list 101 deny TCP 172.16.4.0 0.0.0.255 172.16.3.0 0.0.0.255 eq 20

access-list 101 permit IP 172.16.4.0 0.0.0.255 any

Select one:

- This will allow FTP traffic
- Block all data communications
- This will block HTTP Traffic
- This will permit TFTP Traffic
- This will block FTP Traffic



Question 8

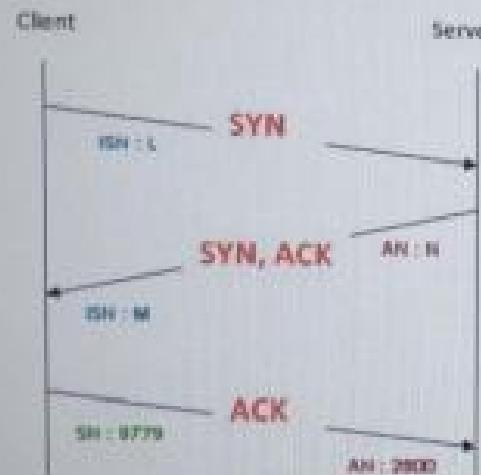
Not yet answered

Marked out of 2.0

Flag question

≡ Quiz na

Identify the values of L, M, N respectively for the following connection establishment process between a client and a server.



Select one:

- 5177, 2799, 9779
- 2799, 9778, 9779
- 9779, 2799, 9779
- 9779, 2799, 9778
- 9778, 2799, 9779

Finish attempt

Time left 1:33:21

MULTIPLE CHOICE

1 2 3

4 5 6

7 8 9

10 11

12 13 14

15 16 17

18 19

20 21 22

23 24 25

26 27 28

ESSAY TYPE QUESTIONS

31 32

ANSWER

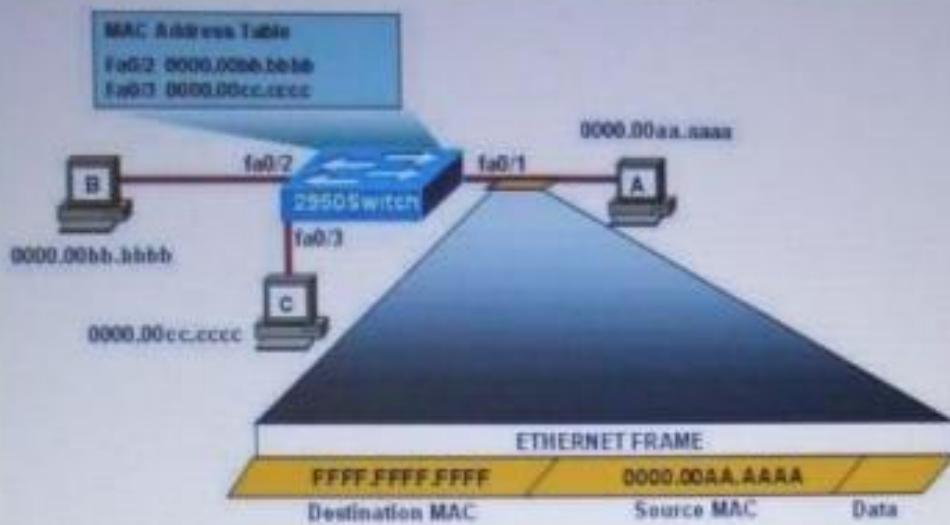
33

The following commands are executed on Interface fa0/1 of the Switch.

```
Switch(config-if)#switchport port-security  
Switch(config-if)#switchport port-security mac-address sticky  
Switch(config-if)#switchport port-security maximum 1
```

The Ethernet frame shown below arrives on interface fa0/1.

Which of the following functions will occur when this frame is received by the Switch?



Select one or more:

- This frame will be discarded when it is received by Switch.
- The MAC address table will now have an additional entry of fa0/1 FFFF.FFFF.FFFF
- All frames arriving on Switch with a destination of 0000.00aa.aaaa will be forwarded out fa0/1.
- Hosts B and C may forward frames out fa0/1 but frames arriving from other switches will not be forwarded out fa0/1.
- Only host A will be allowed to transmit frames on fa0/1

DELL

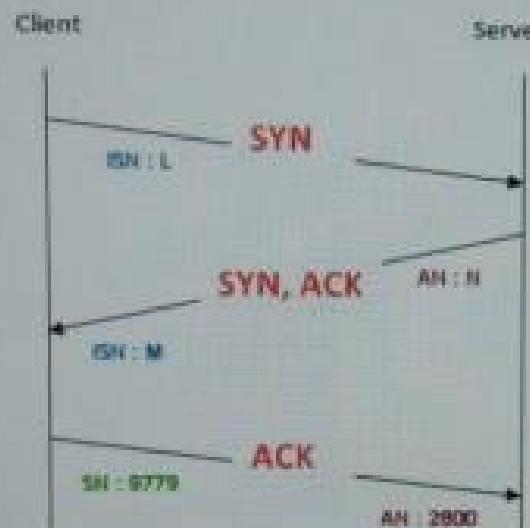
Question 8

Not yet answered

Marked out of 2.0

Flag question

Identify the values of L, M, N respectively for the following connection establishment process between a client and a server.



Select one:

- 9777 , 2799 , 9779
- 2799 , 9778 , 9779
- 9779 , 2799 , 9779
- 9778 , 2799 , 9779
- 9778 , 2799 , 9778

Moodle

→ X C ⓘ A

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Question 10  
1 out of 2.0  
Next question

Which of the following statements about ACLs is/are true?

Select one or more:

- ACLs go bottom-up through the entries looking for a match.
- ACLs go top-to-bottom through the entries looking for a match.
- An ACL has a implicit permit at the end of ACL.
- ACLs will check the packet against all entries looking for a match.
- An ACL must at least one permit action, else it just blocks all traffic.

Next page

DELL

Which of the following values or sets of values are included when creating an extended access control list entry?

Select one or more:

- access list number between 1 and 99
- destination address and wildcard mask
- access list number between 100 and 199
- source IP address and subnet mask
- destination IP address and subnet mask
- source address and wildcard mask

Which of the following statements about ACLs is/are true?

Select one or more:

- ACLs go bottom-up through the entries looking for a match
- ACLs go top-to-bottom through the entries looking for a match
- An ACL has an implicit permit at the end of ACL.
- ACLs will check the ~~the~~ packet against all entries looking for a match.
- An ACL must have at least one permit action, else it just blocks all traffic.

Moodle

← → X C | ① | ②

Question 10  
Not yet answered  
Marked out of 2.0  
Flag question

Analyze the following TCP header dump given in Hexa-Decimal format.  
Provide answers to the questions given below.

9E34001700001068000018B9903003E80000109A . . .

TCP Header Format.

Header	Data		
Source port address 16 bits		Destination port address 16 bits	
Sequence number 32 bits			
Acknowledgment number 32 bits			
HLEN 4 bits	Reserved 6 bits	<b>URG</b> <b>RCK</b> <b>SHTN</b>	Window size 16 bits
Checksum 16 bits		Urgent pointer 16 bits	
Options and Padding			

1. The Acknowledgement number is (in Decimal):

2. The Sequential number is (in Decimal):

Finish attempt ...  
Time left: 1:08:49  
MULTIPLE CHOICE Q  
1 2 3 4  
9 10 11 12  
17 18 19 20  
25 26 27 28  
ESSAY TYPE QUESTION  
31 32  
FEEDBACK  
33

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Which of the following values or sets of values are included when creating an extended access control list entry?

Select one or more:

- destination address and wildcard mask
- access list number between 100 and 199
- access list number between 1 and 99
- source IP address and subnet mask
- source address and wildcard mask
- destination IP address and subnet mask

Which of the following bridge IDs wins election as root, assuming that the switches with these bridge IDs are in the same network?

Select one:

- 32769:0200.2222.2222
- 40961:0200.1111.1111
- 32769:0200.1111.1111
- 4097:0200.2222.2222
- 4097:0200.1111.1111

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What does a VLAN do?

Select one or more:

- Breaks up broadcast domains in a layer 2 switch internetwork
- Provide network segmentation
- Breaks up collision domains in a layer 2 switch internetwork
- Acts as the fastest port to all servers
- Provides multiple collision domains on one switch port

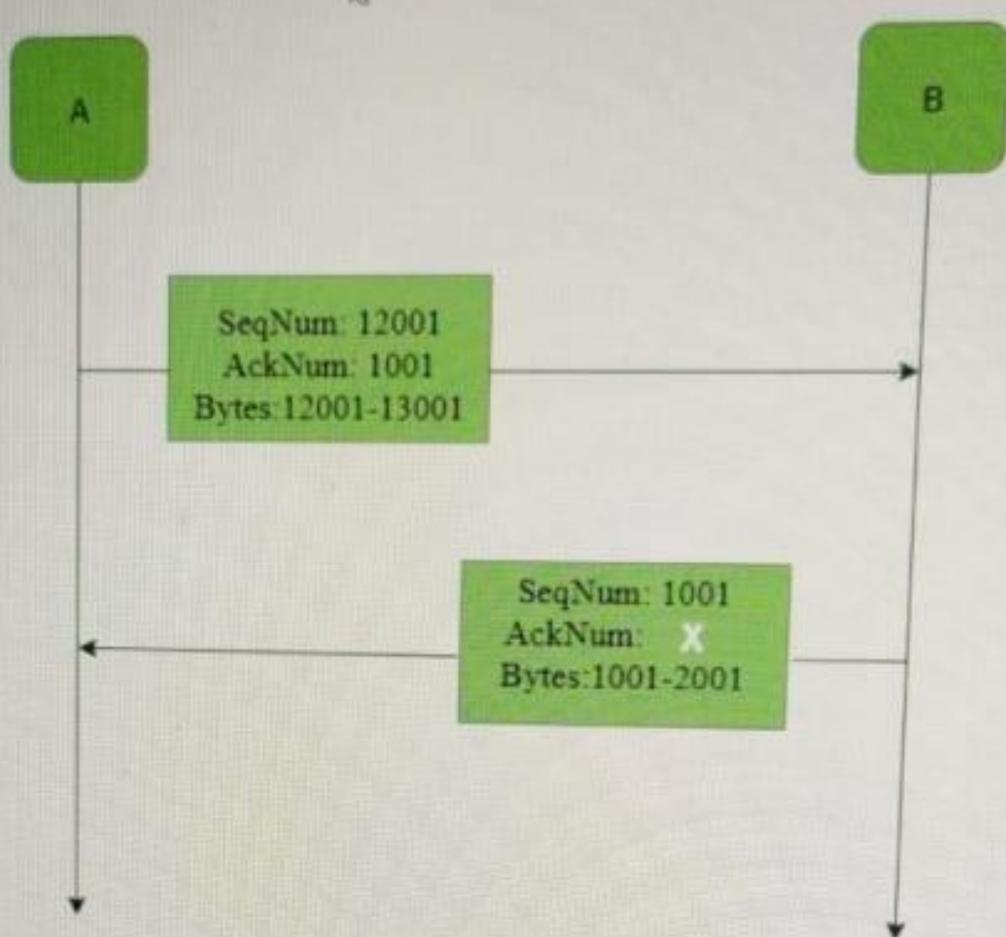
Next

DELL

15

answered  
out of 2.0  
question

Machine A and B of the following diagram is in which TCP state?



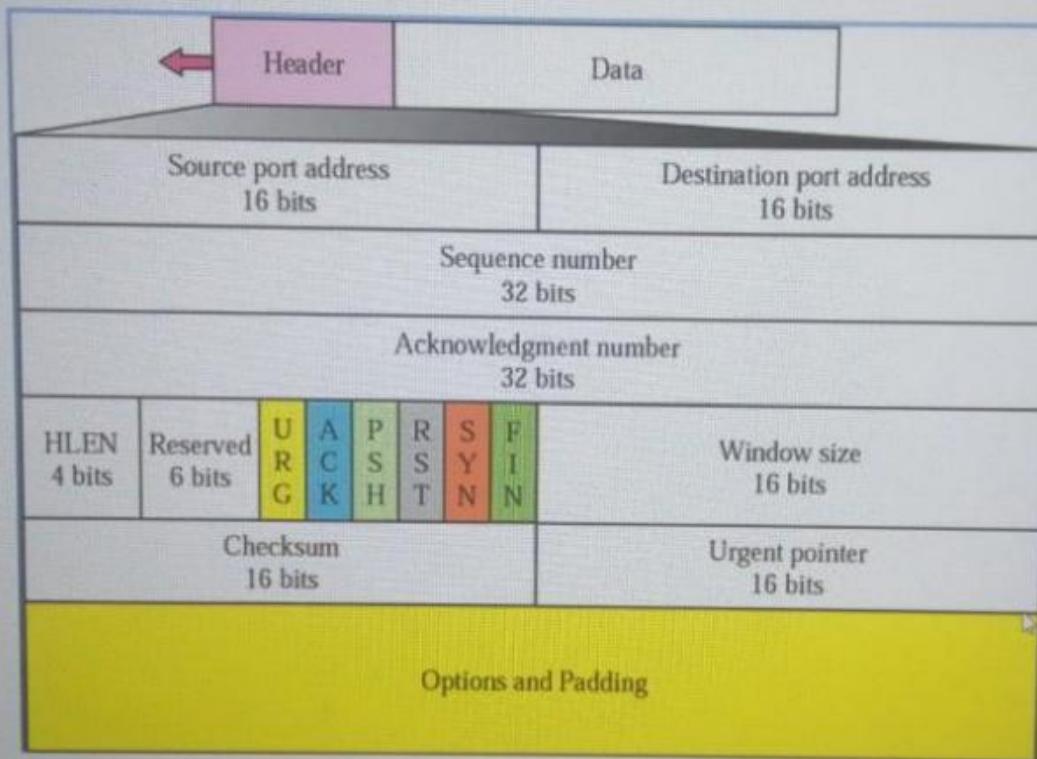
Select one:

- ACK RECEIVED
- CLOSE WAIT
- TIME WAIT
- ESTABLISHED
- TRANSMISSION
- ACTIVE

Flag question

9C400017000007D000000C51E0121000000000000 . . .

TCP Header Format.



1. The source port number is (in Decimal):

2. The destination port number is (in Decimal):

Flag question

Finish at

Time left

MULTI

1

9

17

25

ESSA

31

FEED

33



```
SwitchA# show port-security interface fa0/1
Port Security : Disabled
Port Status : Secure-down
Violation Mode : Restrict
Aging Time : 0 mins
Aging Type : Absolute
SecureStatic Address Aging : Disabled
Maximum MAC Addresses : 2
Total MAC Addresses : 0
Configured MAC Addresses : 0
Sticky MAC Addresses : 0
Last Source Address:Vlan : 0000.0000.0000:0
Security Violation Count : 0

SwitchA# show running-config interface fa0/1
Building configuration...

Current configuration : 209 bytes
!
interface FastEthernet0/1
  switchport access vlan 3
  switchport mode access
  switchport port-security maximum 2
  switchport port-security violation restrict
  switchport port-security mac-address sticky
end
```

Which of these changes are necessary for SwitchA to meet the requirements?

Select one or more:

- Port security needs to be configured to allow only one learned MAC address.
- Port security needs to be globally enabled for the Switch.
- The port security configuration needs to be saved to NVRAM before it can become active.
- Port security interface counters need to be cleared before using the show command
- Port security needs to be configured to shut down the interface in the event of a violation.
- Port security needs to be enabled on the fa0/1 interface

What is the purpose of the Spanning Tree Protocol in a switched LAN?

Select one:

- To create collision domains
- To manage the VLAN database across multiple switches
- To provide a mechanism for monitoring a switched network environment
- To prevent routing loops in networks with redundant paths
- To prevent switching loops in networks with redundant switched paths

verified  
of 2.0  
station

```
*****  
01:11:12: %PM-4-ERR_DISABLE: psecure-violation error detected on Fa0/8, putting Fa0/8 in err-disable state  
01:11:12: %PORT_SECURITY-2-PSECURE_VIOLATION: Security violation occurred, caused by MAC address 0011.a0d4.12a0 on port  
FastEthernet0/8.  
01:11:13: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/8, changed state to down  
01:11:14: %LINK-3-UPDOWN: Interface FastEthernet0/8, changed state to down  
*****
```

Which of the following cause the above error message to appear?

Select one:

- Another switch was connected to this switch port with the wrong cable
- An unauthorized user tried to telnet to the switch through switch port Fa0/8
- A host with an invalid IP address was connected to a switch port that was previously unused
- Port security was enabled on the switch port, and an unauthorized connection was made on switch port Fa0/8 by unknown device
- NAT was enabled on a router, and a private IP address arrived on switch port Fa0/8
- Port security was enabled on the switch port, and an unauthorized connection was made on switch port Fa0/8 by device 0011.a0d4.12a0



An engineer needs to delete the second line in ACL 101, which currently has four commands configured. Which of the following options could be used?

Select one or more:

- Delete the entire ACL and reconfigure the three ACL statements that should remain in the ACL
- Delete one line from the ACL using the no access-list... global command
- Delete one line from the ACL by entering ACL configuration mode for the ACL and then deleting only the second line based on its sequence number
- Delete the last three lines from the ACL from global configuration mode, and then add the last two statements back into the ACL

[Next page](#)

ESSAY TYPE

31 32

FEEDBACK

1  
8  
5

15  
16  
22  
23

29  
30

In a LAN, which of the following terms best equates to the term VLAN?

Select one or more:

- Trunk
- Subnet
- Broadcast domain
- Collision Domain
- Single Switch

The following is a dump of a TCP header in hexadecimal format.

05320017 00000001 00000000 500207FF 00000000

Source port address 16 bits		Destination port address 16 bits	
Sequence number 32 bits			
Acknowledgement number 32 bits			
HLEN 4 bits	Reserved 6 bits	U R G A C K P C S R H T S S T F N N	Window size 16 bits
Checksum 16 bits		Urgent pointer 16 bits	
Options & padding			

What is the destination port number in Decimal?

Answer:

Which of the following values or sets of values are included when creating an extended access control list entry?

Select one or more:

- destination IP address and subnet mask
- access list number between 1 and 99
- source IP address and subnet mask
- source address and wildcard mask
- access list number between 100 and 199
- destination address and wildcard mask

extend access control list  
entry



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**Question 14**

Not yet answered

Marked out of 2.0

Flag question

----- is an interdomain routing protocol using distance vector routing.

Select one:



- BGP
- RIP
- OSPF
- None of the above

**Question 14**

Not yet answered

Marked out of 2.0

Flag question

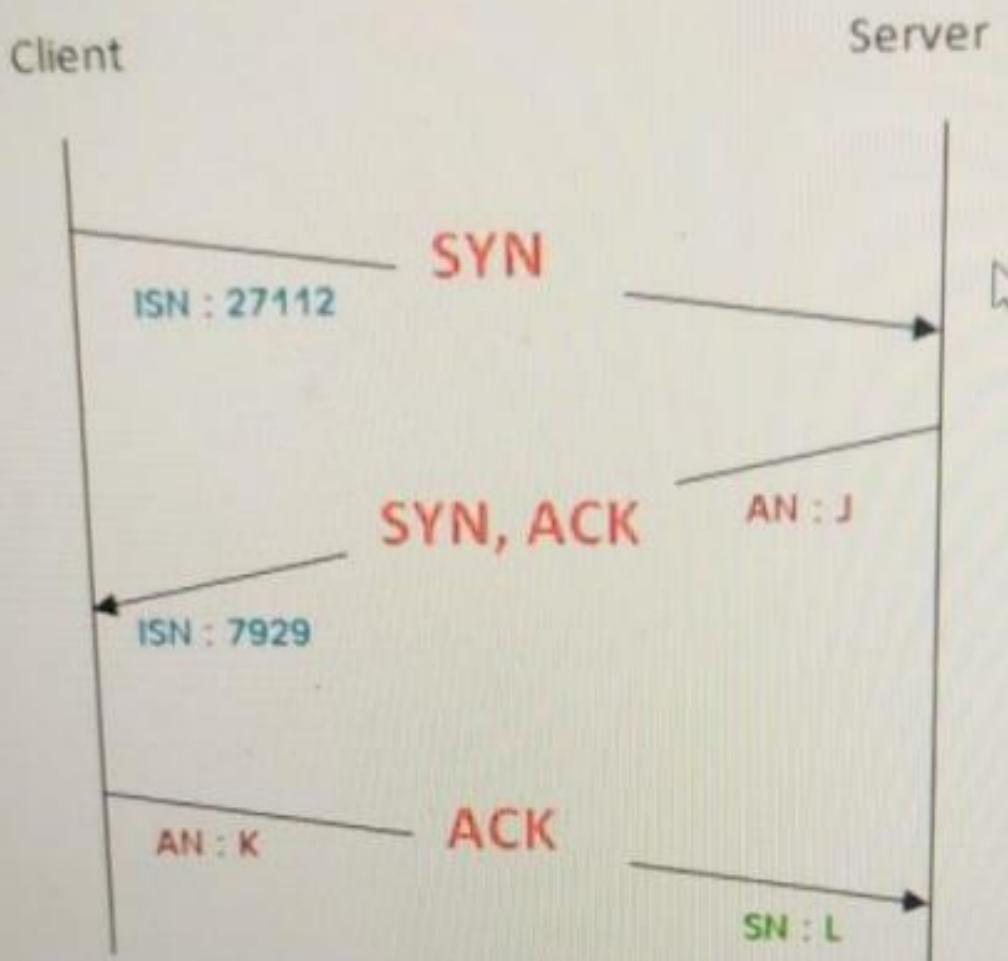
Switch SW1 sends a frame to switch SW2 using 802.1Q trunking. Which of the answers describes how SW1 changes or adds to the frame before forwarding the frame to SW2?

Select one:

- Inserts a 4-byte header and does change the MAC addresses
- Inserts a 4-byte header and does not change the MAC addresses
- Encapsulates the original frame behind an entirely new Ethernet header
- Decapsulates the original frame behind an entirely new Ethernet header
- Add VLAN ID field, which identifies the VLAN associated with the frame.
- None of the above

Next p

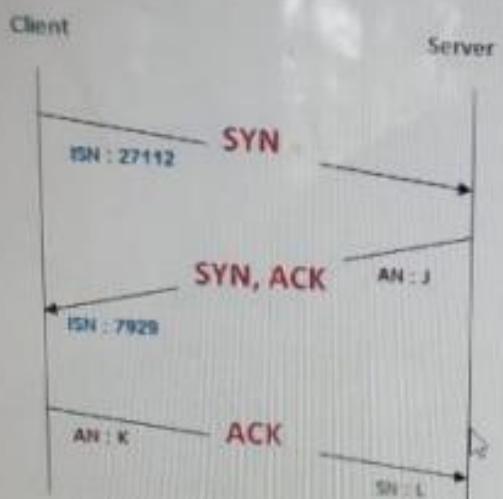
Identify the values of J, K, L respectively for the following co



Select one:

- 27112, 7930, 27112
- 27113, 7930, 27114
- 27112, 7931, 27113
- 27113, 7931, 27113
- 27113, 7930, 27113

Identify the values of J, K, L respectively for the following connection establishment process between a client and a server.



Select one:

- 27112, 7931, 27113
- 27112, 7930, 27112
- 27113, 7930, 27114
- 27113, 7931, 27113
- 27113, 7930, 27113



Question 22

Not yet answered

Marked out of 2.0

Flag question

The administrator enter the following configurations that in router RTA. Then an administrator receives an error and users on VLAN 20 report that they are unable to reach users on VLAN 30. What is the reason for this problem?

```
RTA# configure terminal
RTA(config)# interface Fa0/0
RTA(config-if)# no shutdown
RTA(config-if)# interface Fa0/0.10
RTA(config-subif)# encapsulation dot1q 10
RTA(config-subif)# ip address 192.168.3.30 255.255.255.224
RTA(config-subif)# interface Fa0/0.20
RTA(config-subif)# encapsulation dot1q 20
RTA(config-subif)# ip address 192.168.3.49 255.255.255.224
RTA(config-subif)# interface Fa0/0.30
RTA(config-subif)# encapsulation dot1q 30
RTA(config-subif)# ip address 192.168.3.62 255.255.255.224
```

Select one:

- Router RTA is using the same subnet for VLAN 20 and VLAN 30.
- There is no address on Fa0/0 to use as a default gateway
- Dot1q does not support subinterfaces
- The no shutdown command should have been issued on Fa0/0.20 and Fa0/0.30

Which of these is not applicable for IP protocol ?

Select one or more:

- Does not offer error reporting
- Offer unreliable service
- Connection-less
- Offer reliable service
- Operate at the layer 4
- Connection - Oriented



Match the correct TCP Timers for P,Q and R respectively.

P - To deal with a zero-window-size deadlock situation, TCP uses this timer. When the sending TCP receives an acknowledgement for a segment with a window size of zero, it starts this timer.

Q - This timer is used to prevent a long idle connection between two TCPs.

R - This timer starts after sending the last Ack for 2nd FIN and closing the connection.

Select one:

- Retransmission , Time-waited , Keepalive
- Retransmission , Keepalive , Persistance
- Persistance , Time-waited , Keepalive
- Retransmission , Keepalive , Time-waited
- Persistance , Keepalive , Time-waited

Consider a TCP client and a TCP server running on two different machines. After completing data transfer, the TCP client calls close to terminate the connection and a \_\_\_\_\_P\_\_\_\_\_ segment is sent to the TCP server. Server-side TCP responds by sending an \_\_\_\_\_Q\_\_\_\_\_ which is received by the client-side TCP.

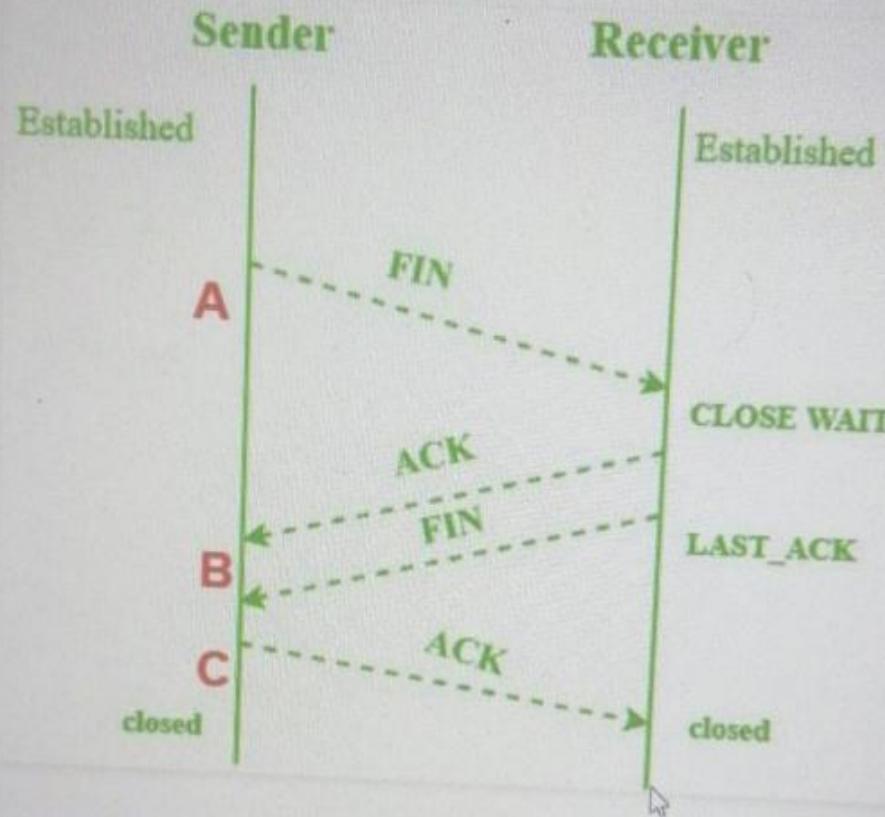
Identify 'P' and 'Q' respectively

Select one:

- ACK & FIN
- FIN & FIN
- FIN & RST
- FIN & FIN+ACK
- FIN & ACK

23  
Answered  
out of 2.0  
Question

Identify the TCP State denoted by "B".



Select one:

- FIN\_WAIT\_2
- TIME\_WAIT\_2
- FIN\_WAIT\_1
- TIME\_WAIT
- TIME\_WAIT\_1

**Question 16**

Not yet answered

Marked out of 2.0

 Flag question

Which of the following statements about ACLs is/are true?

Select one or more:

- An ACL has a implicit permit at the end of ACL.
- ACLs will check the packet against all entries looking for a match.
- An ACL must have at least one permit action, else it just blocks all traffic.
- ACLs go bottom-up through the entries looking for a match
- ACLs go top-to-bottom through the entries looking for a match

Which of the following statements about ACLs is/are true?

Select one or more:

- An ACL has a implicit permit at the end of ACL.
- ACLs go bottom-up through the entries looking for a match
- ACLs go top-to-bottom through the entries looking for a match
- ACLs will check the packet against all entries looking for a match.
- An ACL must have at least one permit action, else it just blocks all traffic.

You are a system administrator and you want to deny access to a group of computers with addresses 202.30.10.80 to 202.30.10.95. Which wildcard mask would you use?

Select one:

- 0.0.0.15
- 0.0.0.240
- 0.0.0.1111
- 0.0.0.255
- 0.0.255.255

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What is the purpose of the Spanning Tree Protocol in a switched LAN?

Select one:

- To prevent routing loops in networks with redundant paths
- To manage the VLAN database across multiple switches
- To create collision domains
- To prevent switching loops in networks with redundant switched paths
- To provide a mechanism for monitoring a switched network environment

Which switching method drops frames that fail the FCS check?

Select one:

- ingress port buffering
- store-and-forward switching
- cut-through switching
- borderless switching

Next

Identify the values of X,M,Z respectively for the following connection.

Client

Server

SN : 1200  
AN : L

FIN

SN : 1490

AN : X

SN : M

AN : Y

SN : N  
AN : Z

ACK

Select one:

- 1201,1491,1492
- 1491,1201,1491
- 1491,1201,1492
- 1201,1201,1492
- 1201,1201,1491

The administrator enter the following configurations that in router RTA. Then an administrator receives an error and users on VLAN 20 report that they are unable to reach users on VLAN 30. What is the reason for this problem?

```
RTA# configure terminal
RTA(config)# interface Fa0/0
RTA(config-if)# no shutdown
RTA(config-if)# interface Fa0/0.10
RTA(config-subif)# encapsulation dot1q 10
RTA(config-subif)# ip address 192.168.3.30 255.255.255.224
RTA(config-subif)# interface Fa0/0.20
RTA(config-subif)# encapsulation dot1q 20
RTA(config-subif)# ip address 192.168.3.49 255.255.255.224
RTA(config-subif)# interface Fa0/0.30
RTA(config-subif)# encapsulation dot1q 30
RTA(config-subif)# ip address 192.168.3.62 255.255.255.224
```

Select one:

- Router RTA is using the same subnet for VLAN 20 and VLAN 30.
- The no shutdown command should have been issued on Fa0/0.20 and Fa0/0.30
- Dot1q does not support subinterfaces
- There is no address on Fa0/0 to use as a default gateway

Which of the following statement/s is/are TRUE regarding the Spanning Tree Algorithm?

Select one or more:

- STP (Spanning Tree Protocol) automatically removes layer 2 switching loops by creating the redundant links.
- A designated port is the port that has the lowest port cost value to get on a given network, compared to other ports on that segment.
- The Root port is the port that directly connects to the Root Bridge, or has the shortest path to the Root Bridge.
- A non-designated port is a port that has the higher port cost than the designated port. STP marks the non-designated port as the forwarding port.
- Path cost is an accumulated value of the port costs from the Root Bridge to other switches in the network



13

answered

out of

question

Which of the following statement/s is/are FALSE regarding Access Control Lists ?

Select one or more:

- The standard Access-list is generally applied close to the source
- As there is an implicit deny at the end of every access list
- Every new rule which is added into the access list will be placed at the top of the access list
- Improve network performance
- Improve network availability
- Provides security as administrator can configure the access list according to the needs and deny the unwanted packets from entering the network.

Next page



### Question 15

Not yet answered

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1.00

Flag question

The administrator enter the following configurations that in router RTA. Then an administrator receives an error and users on VLAN 20 report that they are unable to reach users on VLAN 30. What is the reason for this problem?

```
RTA# configure terminal
RTA(config)# interface Fa0/0
RTA(config-if)# no shutdown
RTA(config-if)# interface Fa0/0.10
RTA(config-subif)# encapsulation dot1q 10
RTA(config-subif)# ip address 192.168.3.30 255.255.255.224
RTA(config-subif)# interface Fa0/0.20
RTA(config-subif)# encapsulation dot1q 20
RTA(config-subif)# ip address 192.168.3.49 255.255.255.224
RTA(config-subif)# interface Fa0/0.30
RTA(config-subif)# encapsulation dot1q 30
RTA(config-subif)# ip address 192.168.3.62 255.255.255.224
```

Select one:

- There is no address on Fa0/0 to use as a default gateway
- The no shutdown command should have been issued on Fa0/0.20 and Fa0/0.30
- Router RTA is using the same subnet for VLAN 20 and VLAN 30.
- Dot1q does not support subinterfaces

Next page



# Online Exams

Sri Lanka Institute of Information Technology

Question 31

Not yet answered

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1.00

Flag question

Which of the following statement/s is/are FALSE regarding Access Control Lists ?

Select one or more:

- As there is an implicit deny at the end of every access list
- Improve network performance
- Provides security as administrator can configure the access list according to the needs and deny the unwanted packets from entering the network.
- The standard Access-list is generally applied close to the source
- Every new rule which is added into the access list will be placed at the top of the access list
- Improve network availability

**Question 23**

Not yet answered

Marked out of  
1.00

 Flag question

Switch SW1 sends a frame to switch SW2 using 802.1Q trunking. Which of the answers describes how SW1 changes or adds to the Ethernet frame before forwarding the frame to SW2?

Select one:

- Inserts a 4-byte header and does change the MAC addresses
- Inserts a 4-byte header and does not change the MAC addresses
- Encapsulates the original frame behind an entirely new Ethernet header
- Decapsulates the original frame behind an entirely new Ethernet header
- Add VLAN ID field, which identifies the VLAN associated with the frame.
- None of the above

[Next page](#) 

Which of the following statement/s is/are FALSE regarding Access Control Lists ?

Select one or more:

- Improve network performance
- As there is an implicit deny at the end of every access list
- The standard Access-list is generally applied close to the source
- Provides security as administrator can configure the access list according to the needs and deny the unwanted packets from entering the network.
- Improve network availability
- Every new rule which is added into the access list will be placed at the top of the access list

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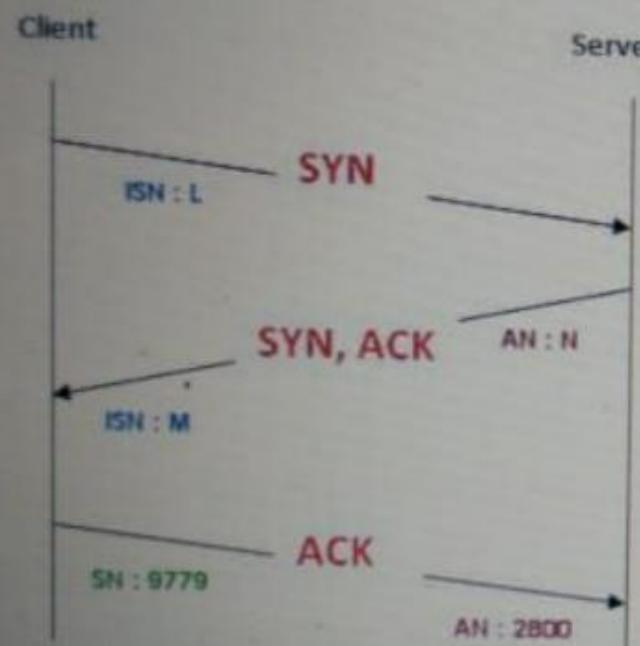
6

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Go to Settin

11

Identify the values of L, M, N respectively for the following connection establishment process between a client and a server.



Select one:

- 9778, 2799, 9778
- 9777, 2799, 9779
- 9778, 2799, 9779
- 2799, 9778, 9779
- 9779, 2799, 9779

The following is a dump of a TCP header in hexadecimal format.

05A50017 00000001 00000000 D00207FF 00000000

Source port address 16 bits		Destination port address 16 bits			
Sequence number 32 bits					
Acknowledgement number 32 bits					
HLEN 4 bits	Reserved 6 bits	U A P R S F R C S S Y I G K H T N N	Window size 16 bits		
Checksum 16 bits		Urgent pointer 16 bits			
Options & padding					

What is the size of the options field in Bytes (in Decimal) ?



### Question 15

Not yet answered

Marked out of  
1.00

Flag question

The administrator enter the following configurations that in router RTA. Then an administrator receives an error and users on VLAN 20 report that they are unable to reach users on VLAN 30. What is the reason for this problem?

```
RTA# configure terminal
RTA(config)# interface Fa0/0
RTA(config-if)# no shutdown
RTA(config-if)# interface Fa0/0.10
RTA(config-subif)# encapsulation dot1q 10
RTA(config-subif)# ip address 192.168.3.30 255.255.255.224
RTA(config-subif)# interface Fa0/0.20
RTA(config-subif)# encapsulation dot1q 20
RTA(config-subif)# ip address 192.168.3.49 255.255.255.224
RTA(config-subif)# interface Fa0/0.30
RTA(config-subif)# encapsulation dot1q 30
RTA(config-subif)# ip address 192.168.3.62 255.255.255.224
```

Select one:

- There is no address on Fa0/0 to use as a default gateway
- The no shutdown command should have been issued on Fa0/0.20 and Fa0/0.30
- Router RTA is using the same subnet for VLAN 20 and VLAN 30.
- Dot1q does not support subinterfaces



## Online Exams

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13

answered  
out of  
question

Which of the following statement/s is/are FALSE regarding Access Control Lists ?

Select one or more:

- The standard Access-list is generally applied close to the source
- As there is an implicit deny at the end of every access list
- Every new rule which is added into the access list will be placed at the top of the access list
- Improve network performance
- Improve network availability
- Provides security as administrator can configure the access list according to the needs and deny the unwanted packets from entering the network.



## Online Exams

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Question 12

Not answered  
0 out of 1

Next question

Consider a TCP client and a TCP server running on two different machines. After completing data transfer, the TCP client calls close to terminate the connection and a \_\_\_\_\_P\_\_\_\_\_ segment is sent to the TCP server. Server-side TCP responds by sending an \_\_\_\_\_Q\_\_\_\_\_ which is received by the client-side TCP.

Identify 'P' and 'Q' respectively

Select one:

- FIN & ACK
- FIN & FIN+ACK
- ACK & FIN
- FIN & RST
- FIN & FIN

Quiz na

DISCLAIMER



MULTIPLE CH

1	2	3
8	9	1
15	16	1
22	23	24

The administrator enter the following configurations that in router RTA. Then an administrator receives an error and users on VLAN 20 report that they are unable to reach users on VLAN 30. What is the reason for this problem?

```
RTA# configure terminal
RTA(config)# interface Fa0/0
RTA(config-if)# no shutdown
RTA(config-if)# interface Fa0/0.10
RTA(config-subif)# encapsulation dot1q 10
RTA(config-subif)# ip address 192.168.3.30 255.255.255.224
RTA(config-subif)# interface Fa0/0.20
RTA(config-subif)# encapsulation dot1q 20
RTA(config-subif)# ip address 192.168.3.49 255.255.255.224
RTA(config-subif)# interface Fa0/0.30
RTA(config-subif)# encapsulation dot1q 30
RTA(config-subif)# ip address 192.168.3.62 255.255.255.224
```

Select one:

- Router RTA is using the same subnet for VLAN 20 and VLAN 30.
- The no shutdown command should have been issued on Fa0/0.20 and Fa0/0.30
- Dot1q does not support subinterfaces
- There is no address on Fa0/0 to use as a default gateway



## Online Exams

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tion 7

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ed out of

lag question

Which of the following are transitory port states used only during the process of STP convergence?

Select one or more:

- Listening
- Discarding
- Blocking
- Forwarding
- Learning

Next page

Analyze the given output.

```
Switch# show spanning-tree vlan 30
VLAN0030
Spanning tree enabled protocol rstp
Root ID Priority 24606
Address 00d0.047b.2800
This bridge is the root
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 24606 (priority 24576 sys-id-ext 30)
Address 00d0.047b.2800
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 300
Interface Role Sts Cost Prio.Nbr Type
-----, -----
Fa1/1 Desg FWD 4 128.1 p2p
Fa1/2 Desg FWD 4 128.2 p2p
Fa5/1 Desg FWD 4 128.257 p2p
```

It is generated at a switch. Which of these statement/s is/are true?

Select one or more:

- Thirty VLANs have been configured on this switch
- All designated ports are in a forwarding state.
- The bridge priority is higher than the default value for spanning tree
- The bridge priority is lower than the default value for spanning tree
- All the data should transmit via this switch

Identify the values of X,M,Z respectively for the following connection

Client

Server

SN : 1200  
AN : L

FIN

ACK

SN : 1490

AN : X

SN : M

FIN

AN : Y

SN : N  
AN : Z

ACK

Select one:

- 1201,1491,1492
- 1491,1201,1491
- 1491,1201,1492
- 1201,1201,1492
- 1201,1201,1491

Which of the following is NOT true about Network Switches?

Select one:

- They filter frames by inspecting MAC addresses.
- They divide networks into segments.
- They do not allow frames that are destined for the local network to cross the Router.
- They are able to choose the best route to a remote destination.

# Online Exams

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Which of the following is **NOT** true about Network Switches?

Select one:

- They divide networks into segments.
- They are able to choose the best route to a remote destination.
- They do not allow frames that are destined for the local network to cross the Router.
- They filter frames by inspecting MAC addresses.

# Online Exams

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Which set of commands is recommended to prevent the use of a hub in the access port of a network switch?

Select one:

- switch(config-if)#switchport mode trunk  
switch(config-if)#switchport port-security maximum 1
- switch(config-if)#switchport mode access  
switch(config-if)#switchport port-security mac-address 1
- switch(config-if)#switchport mode access  
switch(config-if)#switchport port-security maximum 1  
switch(config-if)#switchport mode trunk  
switch(config-if)#switchport port-security mac-address 1



## Online Exams

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**Question 25**

Not yet answered

Marked out of  
1.00

Flag question

What is the default route on an IP network?

Select one:

- When all conditions are equal, the best route for delivery of IP datagrams
- The address of the nearest downstream neighbor in a Token ring network
- Any static route listing in a routing table
- At the router, it is the route used to direct frames for which the next hop has not been explicitly listed in the routing table
- This is the route that will be chosen first by IP for delivery of a datagram