

Not yet answered
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Flag question

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

← 4A00 01A0 002A 0000 0906 0000 5A3C 0209 A40C 0E07 16 = 16

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	32	J2	1
Destination IP Address					
Option					

Find the destination network address.

Select one:

- 90.0.0.0
- 90.60.2.9
- 90.60.0.0
- 164.12.14.7
- 164.12.0.0

164.12.0.0 Network

Quiz nav

1	2	3
8	9	10
15	16	17
22	23	24
29	30	

Finish attempt ...

Time left 0:59:47



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Question 1

Not yet answered

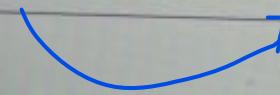
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1.00

Flag question

Which fields of the IP header change from router to router?

Select one:

- Protocol and Time To Live value
- Fragmentation offset and Time To Live value
- Identification number and Service type
- Fragmentation offset and Service type
- Time To Live value and Header Checksum



Next page

Finish attempt

Time left 0:5



Question 1

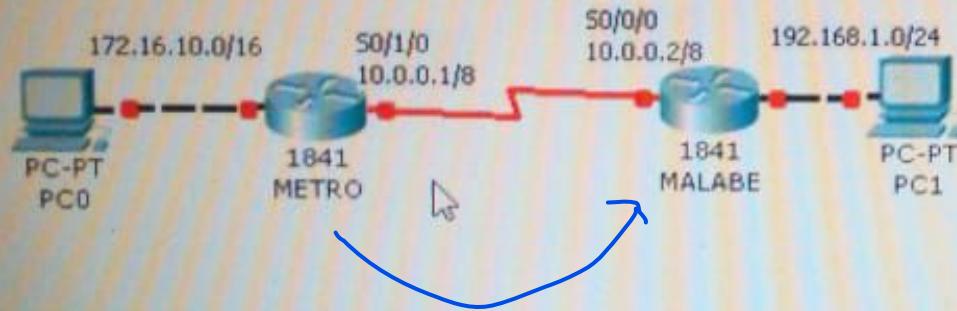
Not yet answered

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Flag question

Network addresses of MALABE and METRO LANs are given in the diagram.

Which command must be configured to allow communication from Metro (172.16.10.0/16) LAN to MALABE LAN (192.168.1.0/24)?



Select one:

- METRO #ip route 192.168.1.0 255.255.0.0 50/0/0
- METRO#ip route 192.168.1.0 255.255.255.0 10.0.0.2
- METRO(config)#ip route 192.168.1.0 255.255.255.0 10.0.0.1
- METRO(config)#ip route 192.168.1.0 255.255.255.0 10.0.0.2
- METRO#ip route 192.168.1.0 255.255.255.0 10.0.0.1

Question 2

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Flag question

The following diagram shows the routing table of Router1.

Router1#show ip route

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

- C 10.0.0.0/8 is directly connected, Serial2/0 ✓
- C 12.0.0.0/8 is directly connected, Serial3/0 ✓
- C 172.16.0.0/16 is directly connected, FastEthernet0/0

Router1#

S *

Which statement is correct?

Select one:

- A. RIP Protocol is used to configure the dynamic routes. +
- B. Three networks directly connected to Router1. -
- C. Default route is 172.16.0.0/16. +
- D. Only one static route with FastEthernet0/0 exit interface. X



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**Question 4**

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Flag question

What does the following command allow you to perform next?

RouterA(config)#line vty 0 3

Select one:

- Set the console password.
- Shut down the router.
- Set the configurations
- Disable console connections.
- Set the Telnet password.

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Question 3

Not yet answered

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Flag question

What is the broadcast address for the network where the host 112.48.160.183/26 exists.

Answer:

112.48.160.191

$$101111 = 191$$

112.48.160.191

Which two things can be determined by using the ping command?

Select one or more:

- The average time it takes a packet to reach the destination and for the response to return to the source
- The number of routers between the source and destination device
- The destination device is reachable through the network
- The IP address of the router nearest the destination device
- The average time it takes each router in the path between source and destination to respond

1 / 3

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Question 4

Not yet answered

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What is split horizon?

Select one:

- It defines the path to forward the IP data traffic
- It splits the traffic when you have a large bus (horizon) physical network.
- It holds the regular updates from broadcasting to a downed link.
- Information about a route should not be sent back in the direction from which the original update came.
- It prevents regular update messages from reinstating a route that has gone down.

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ag question

In distance vector routing, each node periodically shares its routing table with _____.

Select one:

- Every other node
- Its immediate neighbours
- One neighbour
- All of the above

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≡ Quiz

1 2

8 9

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Finish attempt

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Question 5

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A router interface has been assigned an IP address of 172.16.192.166 with a mask of 255.255.255.248. To which Subnet does the IP address belong?

Select one:

- 172.16.192.128
- 172.16.192.160
- 172.16.192.168
- 172.16.192.0
- 172.16.0.0

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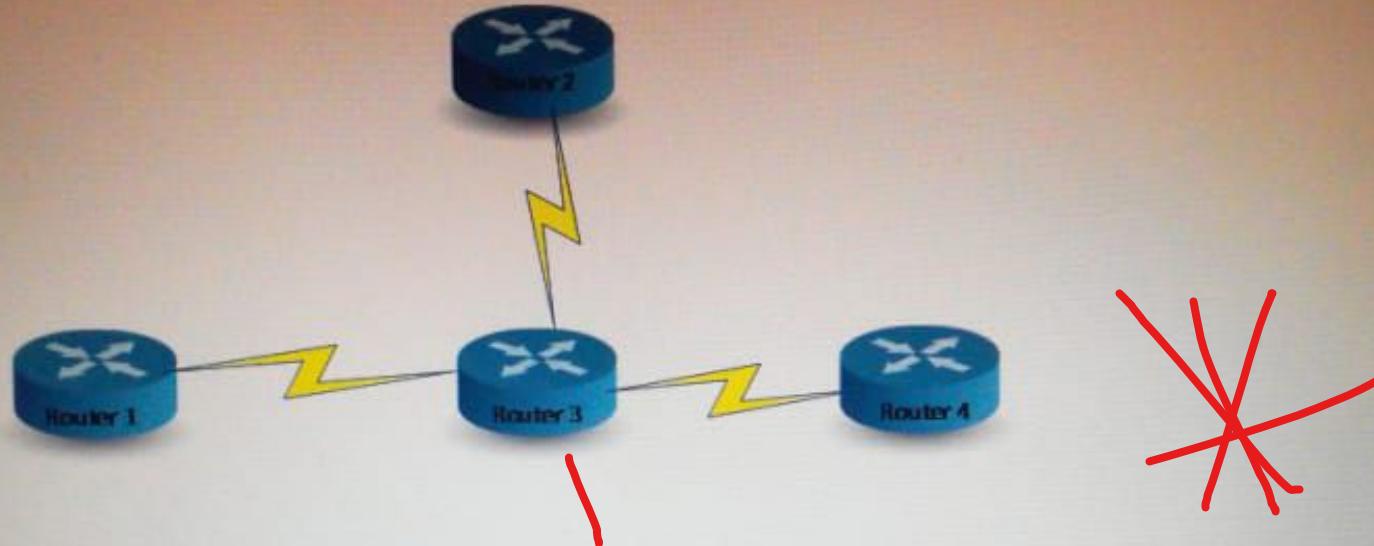
Question 6

Not yet answered

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Flag question

Refer to the router topology shown in the diagram. Assuming that all routers are running RIP, which statements describe how the routers exchange their routing tables?



Select one:

- A. Router 1 exchanges with Router 3 ✓
- B. Router 1 exchanges with Router 4
- C. Router 1 exchanges with Router 2
- D. Router 4 exchanges with Router 3 ✓
- E. A and C above

≡ Quiz navigation

1	2	3	4
8	9	10	11
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Finish attempt ...

Time left 0:48:31



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Question 8

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_____ is a group of networks and routers under the authority of a single administration.

Select one:

- A. An autonomous system
- B. An area
- C. Both A and B
- D. None of the above

Next page

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Refer to the figure. A new subnet with 60 hosts has been added to the network. Which subnet address should this network use to provide enough usable addresses while wasting the fewest addresses?



Select one:

- A. 192.168.1.56/26
- B. 192.168.1.56/27
- C. 192.168.1.64/27
- D. 192.168.1.64/26

≡ Quiz navigation

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
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Finish attempt...

Time left 0:46:55



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Question 7

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Flag question

An organization is granted the IP Address block 136.40.0.0 in class B. The administrator wants to create 7 subnets and it is required to take minimum number of bits to create subnetworks.

How many usable IP addresses are available for each subnetwork ?

Select one:

- 8190
- 4094
- 254
- 8192
- 4090

Next page



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Section 10

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10

Flag question

Given a class B network of 155.44.0.0, what mask could be used to provide 15 networks each supporting 120 users.

Select one:

- 255.255.240.0
- 255.255.255.240
- 255.255.255.0
- 255.255.255.128
- 255.255.248.0

Next page

Question 11

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Flag question

The following diagram shows the routing table of Router1.

Router1#show ip route

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

- C 10.0.0.0/8 is directly connected, Serial2/0
- C 12.0.0.0/8 is directly connected, Serial3/0
- C 172.16.0.0/16 is directly connected, FastEthernet0/0

Router1#

Which statement is correct?

Select one:

- A. RIP Protocol is used to configure the dynamic routes.
- B. Only one static route with FastEthernet0/0 exit interface.
- C. Three networks directly connected to Router1. ✓
- D. Default route is 172.16.0.0/16

☰ Quiz navigation

1	2	3	4	5	6
8	9	10	11	12	13
15	16	17	18	19	20
22	23	24	25	26	27
29	30				

Finish attempt...

Time left 0:42:47



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Question 8

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Flag question

You are configuring a network. You use a distance vector routing protocol. What could you use to prevent routing loops in the network?

- A. Spanning Tree Protocol
- B. Shortest path first tree
- C. Split horizon
- D. Hold-down timers

→ Split horizon

Select one:

- Only A
- Both A and D
- Only C
- Both C and D

✓



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Question 12

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Flag question

Two devices in the same Local Area Network are having the following IP addresses.

Select the network to which they can belong to :

192.168.100.135 and 192.168.100.144

Select one or more:

- 192.168.100.128/24
- 192.168.100.1/25
- 192.168.100.128/25
- 192.168.100.0/25
- 192.168.100.0/24

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Question 10

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Flag question

The first and the last bit combinations of the host ID section respectively represents :

Select one:

- Network Address and Broadcast Address
- Default Gateway Address and Network Address
- Network Address and Default Gateway Address
- Default Gateway Address and Broadcast Address
- Broadcast Address and Network Address



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Question 11

Not yet answered

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Flag question

At what point would a router, which is in the path to the destination device, stop forwarding the packet?

Select one:

- When the values of both the Echo Request and Echo Reply messages reach zero
- When the router receives an ICMP Time Exceeded message
- When the value in the TTL field reaches zero
- When the RTT value reaches zero
- When the host responds with an ICMP Echo Reply message

Next page



Question 12

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Flag question

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

160

+8

1280



Question 13

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Flag question

You have been asked to come up with a subnet mask that will allow four web servers to be on the same network while providing the maximum number of subnets. Which network address and subnet mask meet this requirement?

Select one:

- 192.168.252.16 255.255.255.252
- 192.168.252.16 255.255.255.240
- 192.168.252.8 255.255.255.248
- 192.168.252.8 255.255.255.252
- 192.168.252.0 255.255.255.252

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Question 13

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What is the maximum hop count for RIP routes?

Select one:

- 16
- 255
- 15
- 256



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Question 14

Not yet answered

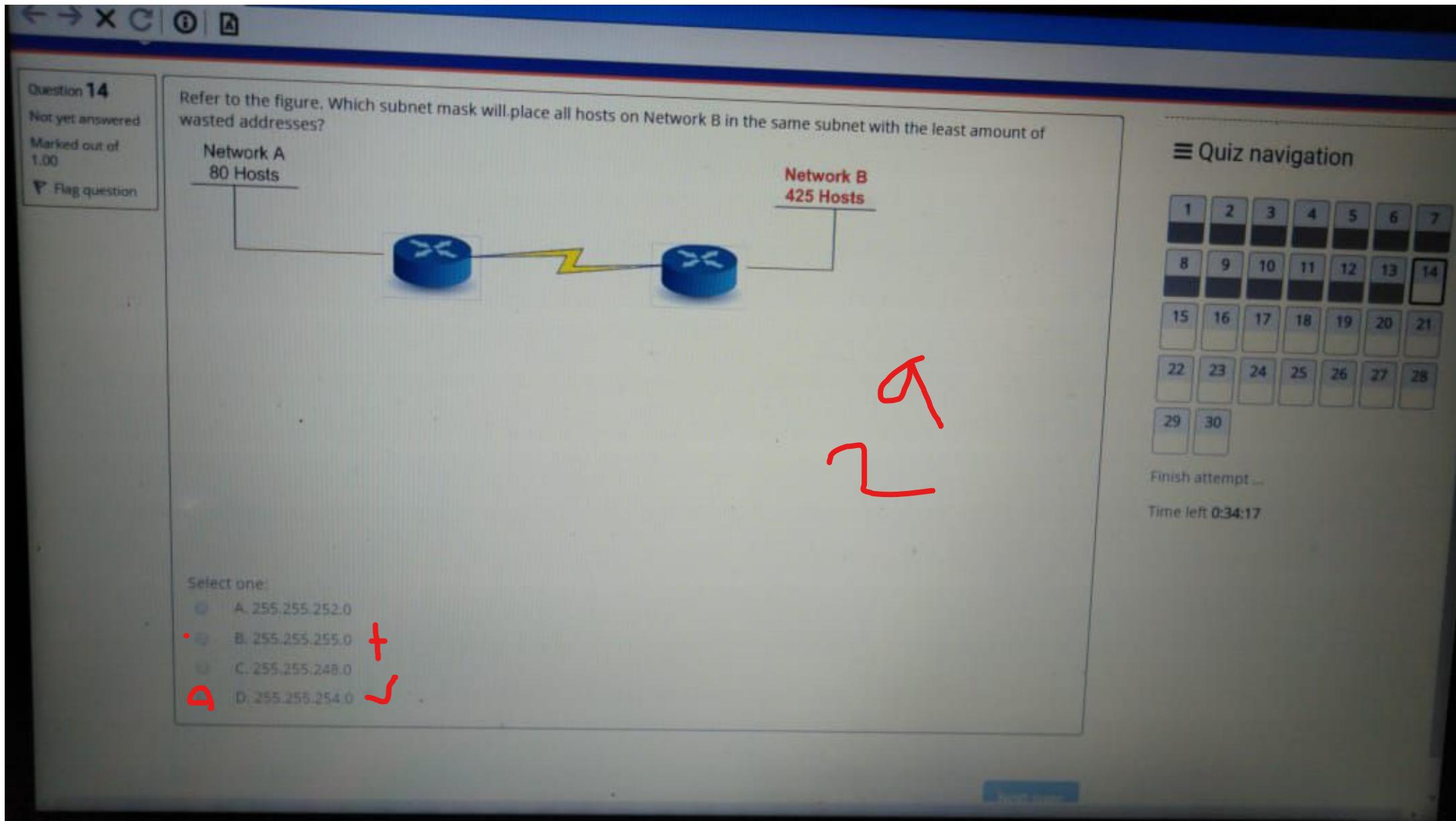
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The _____ routing uses the Dijkstra algorithm to build a routing table.

Select one:

- None of the above
- Distance-vector
- Path-vector
- Link-state





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What is the maximum hop count for RIP routes?

Select one:

- 255
- 15
- 256
- 16

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Question 16

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What is the purpose of a default gateway?

Select one:

- Provides a permanent address to a computer
- Physically connects a computer to a network
- Identifies the logical address of a networked computer and uniquely identifies it to the rest of the network
- Identifies the network to which a computer is connected
- Identifies the device that allows local network computers to communicate with devices on other networks



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Finish attempt ...

Time left 0:31:56

1	2	3	4
8	9	10	11
15	16	17	18
22	23	24	25
29	30		



Question 15

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Flag question

Which fields of the IP header change from router to router?

Select one:

- Time To Live value and Header Checksum
- Fragmentation offset and Service type
- Protocol and Time To Live value
- Identification number and Service type
- Fragmentation offset and Time To Live value



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Question 17

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Flag question

You would like to configure IP RIP on your Cisco Router. Which of the following steps below are required to install IP RIP?

- A - Configure privilege level password
- B - Specify the routing protocol ✓
- C - Specify the given destination network
- D - Specify directly connected networks
- F - Configure static Rip routes

Select one:

- All the steps are needed
- B only
- F and D only
- B and D only ✓

Quiz navigation

1	2	3	4	5
8	9	10	11	12
15	16	17	18	19
22	23	24	25	26
29	30			

Finish attempt...

Time left 0:30:14

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**Question 16**

Not yet answered

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1.00 Flag question

You have the following routing table. Which of the followings are learnt statically by R1 router ?

```
R1#show ip route
```

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

172.16.0.0/24 is subnetted, 3 subnets

- S 172.16.1.0 [1/0] via 172.16.2.2
- C 172.16.2.0 is directly connected, Serial0/0/0
- C 172.16.3.0 is directly connected, FastEthernet0/0
- S 192.168.1.0/24 [1/0] via 172.16.2.2
- S 192.168.2.0/24 [1/0] via 172.16.2.2

- 1. Only 192.168.1.0/24
- 2. 192.168.2.0/24 and 172.16.1.0/24 ✓
- 3. 192.168.1.0/24 via 172.16.2.2
- 4. 172.16.0.0

Select one:

≡ Quiz nav

1	2	3
8	9	10
15	16	17
22	23	24
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Finish attempt ...

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```
C      172.16.3.0 is directly connected, br0
S      192.168.1.0/24 [1/0] via 172.16.2.2
S      192.168.2.0/24 [1/0] via 172.16.2.2
```

1. Only 192.168.1.0/24
2. 192.168.2.0/24 and 172.16.1.0/24
3. 192.168.1.0/24 via 172.16.2.2
4. 172.16.0.0

Select one:

- A. None of them correct
- B. 2 and 3 correct
- C. Both 2 and 4 correct
- D. 1 correct

Given the IP address and Subnet mask of 172.16.134.64 255.255.255.224, which of the following would describe this address?



Select one:

- Not a valid address.
- A broadcast address 
- A private network address.
- A public network address.
- A usable host address.




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[Finish attempt](#)

Time left 0:28:32



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Which of the following OSI layer is used by a Routing Protocol to determine the best path to a network?

Select one:

- Data Link
- Physical
- Network
- Presentation

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Finish attempt

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What is the default route on an IP network?

Select one:

- 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
- Any static route listing in a routing table X
- When all conditions are equal, the best route for delivery of IP datagrams +
- This is the route that will be chosen first by IP for delivery of a datagram
- The address of the nearest downstream neighbor in a Token ring network



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Finish attempt ...

Time left: 0:25:28

1	2	3	4
8	9	10	11
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22	23	24	25
29	30		



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Question 17

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Flag question

Which of these addresses is the shortest abbreviation for the IP address:

3FFE:1044:0000:0000:00AB:0000:0000:0057 ?

Select one:

- 3FFE:1044::AB::57 X
- 3FFE:1044::00AB::0057
- 3FFE:1044:0000:0000:00AB::57
- 3FFE:1044:0:0:AB::57 X
- 3FFE:1044:0:0:00AB::0057 X
- 3FFE:1044:0000:0000:00AB::0057 X



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Question 21

Not yet answered

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Flag question

Which of the following statements is/are true about metrics used in routing protocol?

- A - A metric is the administrative distance of a routing protocol
- B - A metric is a measure of trustworthiness and availability of a route

Select one:

- None of the above
- B only
- Both of the above
- A only

[Next page](#)

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Question 18

Not yet answered

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1.00

Flag question

Which of the following would be correct if we borrowed 8-bits when using the following IP information?

IP address 121.34.45.1

Subnet mask 255.0.0.0

Select one:

- Borrowing 8 host bits would yield 254 usable networks, with 65,534 usable hosts per network.
- Borrowing 8 host bits would yield 256 usable networks, with 65,534 usable hosts per network.
- A new mask of 255.255.0.0 would yield 256 usable networks with 1024 usable hosts per network.
- A new mask of 255.255.0.0 would yield 256 usable networks with 1022 usable hosts per network.



it19013138 Fernando



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Question 22

Not answered

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Flag question

You are configuring a network. You use a distance vector routing protocol. What could you use to prevent routing loops in the network?

- A. Spanning Tree Protocol
- B. Shortest path first tree
- C. Split horizon ✓
- D. Hold-down timers ✓

Select one:

- Both C and D
- Only A
- Both A and D
- Only C

≡ Quiz navigation

1	2	3	4
8	9	10	11
15	16	17	18
22	23	24	25
29	30		

Finish attempt ...

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Time left 0:20:17

**Question 23**

Not yet answered

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Flag question

Which of these addresses is the shortest abbreviation for the IP address:

3FFE:1044:0000:0000:00AB:0000:0000:0057 ?

Select one:

- 3FFE:1044:0:0:AB::57
- 3FFE:1044:0:0:00AB::0057
- 3FFE:1044::AB::57
- 3FFE:1044:0000:0000:00AB::57
- 3FFE:1044:0000:0000:00AB::0057
- 3FFE:1044::00AB::0057

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Finish

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Question 19

Not yet answered

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Flag question

An IP fragment has arrived with an offset value of 370. How many bytes of data were sent in the previous fragment/s?

Select one:

- 3000
- 370
- 740
- 0
- 2960

370

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2960

Next



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Question 24

Not yet answered

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Which of the following commands will set the privileged level high priority password as "sliit" in METRO router?

Select one:

- METRO#enable secret password sliit
- METRO(config)#enable secret password sliit
- METRO(config)#enable secret sliit
- METRO(config)#enable password secret sliit
- METRO>enable secret password sliit

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Finish attempt

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Question 25

Not yet answered

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What is the second host IP address in the 150.17.45.60/30 subnet?

Select one:

- 150.17.45.61
- 150.17.45.62 ✓
- 150.17.45.60
- 150.17.45.63

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26

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question

What does the following command allow you to perform next?

RouterA(config)#line con 0

Select one:

- Set the configurations
- Set the console password.
- Set the Telnet password.
- Disable console connections.
- Shut down the router.



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Online Exams

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Question 20

Not yet answered

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Flag question

In distance vector routing, each node periodically shares its routing table with _____.

Select one:

- Every other node
- Its immediate neighbours
- One neighbour
- All of the above



Question 27

Not yet answered

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Flag question

Which statements are true regarding IP addressing?

Select one:

- IP address 127.0.0.1 can be used for a host to direct traffic to itself. ✓
- Network 172.32.0.0 is part of the private address space. ✗
- Public addresses are blocked from Private Internet by routers. ✗
- NAT translates public addresses to private addresses destined for the Internet. ✗
- Only one company is allowed to use a specific private network address space. ✗

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1	2	3
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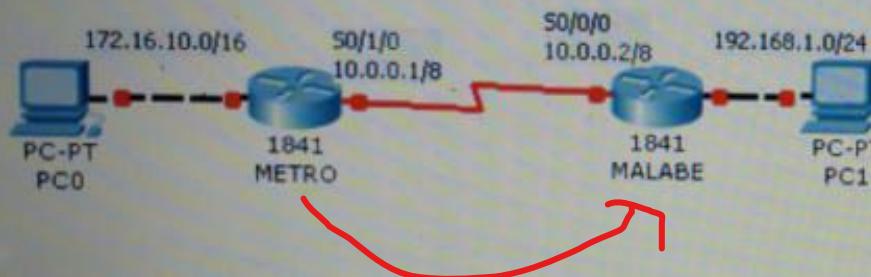
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Network addresses of MALABE and METRO LANs are given in the diagram.

Which command must be configured to allow communication from Metro (172.16.10.0/16) LAN to MALABE LAN (192.168.1.0/24)?



Select one:

- METRO#ip route 192.168.1.0 255.255.255.0 10.0.0.1 X
- METRO(config)#ip route 192.168.1.0 255.255.255.0 10.0.0.2 ✓
- METRO(config)#ip route 192.168.1.0 255.255.255.0 10.0.0.1
- METRO #ip route 192.168.1.0 255.255.0.0 50/0/0 X
- METRO#ip route 192.168.1.0 255.255.255.0 10.0.0.2 X

1	2
8	9
15	16
22	23
29	30

Finish attempt

Time left 0:11:4

Next page

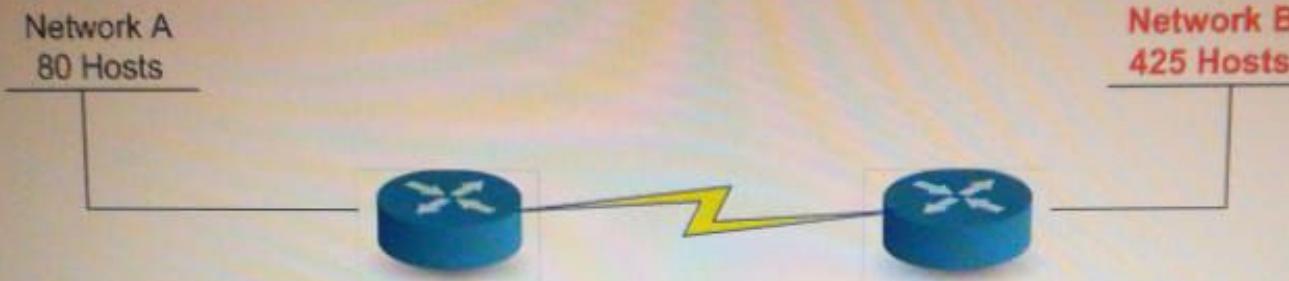
Question 21

Not yet answered

Marked out of
1.00

 Flag question

Refer to the figure. Which subnet mask will place all hosts on Network B in the same subnet with the least amount of wasted addresses?



Select one:

- A. 255.255.255.0
- B. 255.255.252.0
- C. 255.255.248.0
- D. 255.255.254.0



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Question 22

1 question answered

Marked out of

10

Flag question

IGRP is a Cisco proprietary routing protocol that as all routing protocol use metrics to determine the best path to a destination. Which are the default metrics for this routing protocol?

Select one:

- A. Maximum Transmission Unit
- B. Delay in line
- C. Bandwidth
- D. Link loading in bits-per-second
- E. A and B above
- F. B and C above



Online Exams

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Question 29

Not answered

Marked out of

Last question

What is the broadcast address for the network where the host 112.48.160.183/26 exists.

Answer:

191

191

Next page

1	8	15	22	29	30
---	---	----	----	----	----

Finish attempt

Time left 0



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Question 23

Not yet answered

Marked out of

1.00

Flag question

You would like to configure IP RIP on your Cisco Router. Which of the following steps below are required to install IP RIP?

- A - Configure privilledge level password
- B - Specify the routing protocol
- C - Specify the given destination network
- D - Specify directly connected networks
- F - Configure static Rip routes

Select one:

- All the steps are needed
- F and D only
- B only
- B and D only



Next Page



Online Exams

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it19

Question 30

Not yet answered

Marked out of
1.00

Flag question

The _____ routing uses the Dijkstra algorithm to build a routing table.

Select one:

- Path-vector
- Link-state
- None of the above
- Distance-vector

Finish attempt ...

Finish att

Time left



Question 24

Not yet answered

Marked out of
1.00

Flag question

Which fields are changed in an IP header due to fragmentation?

Select one or more:

- Identification number X
- Fragment Offset X
- Source IP Address X
- Total Length X
- More Fragments Flag
- Destination IP Address X

* Header checksum
* Header length



Online Exams

Sri Lanka Institute of Information Technology

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

Next page



Online Exams

Sri Lanka Institute of Information Technology

Question 26

Not yet answered

Marked out of
1.00

Flag question

_____ is a group of networks and routers under the authority of a single administration.

Select one:

- A. An autonomous system
- B. An area
- C. Both A and B
- D. None of the above



Online Exams

Sri Lanka Institute of Information Technology

Question 27

Not yet answered

Marked out of
1.00

Flag question

Which two things can be determined by using the ping command?

Select one or more:

- The average time it takes a packet to reach the destination and for the response to return to the source
- The IP address of the router nearest the destination device X
- The average time it takes each router in the path between source and destination to respond +
- The number of routers between the source and destination device X
- The destination device is reachable through the network ✓



Online Exams

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Question 28

Not yet answered

Marked out of
1.00

Flag question

What does the following command allow you to perform next?

RouterA(config)#line vty 0 3

Select one:

- Set the configurations
- Set the console password.
- Disable console connections.
- Shut down the router.
- Set the Telnet password.



Online Exams

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Question 29

Not yet answered

Marked out of
1.00

Flag question

Which of the following OSI layer is used by a Routing Protocol to determine the best path to a network?

Select one:

- Presentation
- Data Link
- Physical
- Network





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Question 30

Not yet answered

Marked out of
1.00

Flag question

If the first byte of a Datagram is 2000

Select one:

- The datagram is 2000 Bytes in size.
- The datagram has not been fragmented
- The fragmentation offset of the datagram is 2000
- The fragmentation offset of the datagram is 250.
- The fragmentation offset of the datagram is 16000

2000

8
250

Question 30

yet answered
Marked out of
30

Flag question

≡ Quiz navigation

1 2 3 4 5

9 10 11 12 13

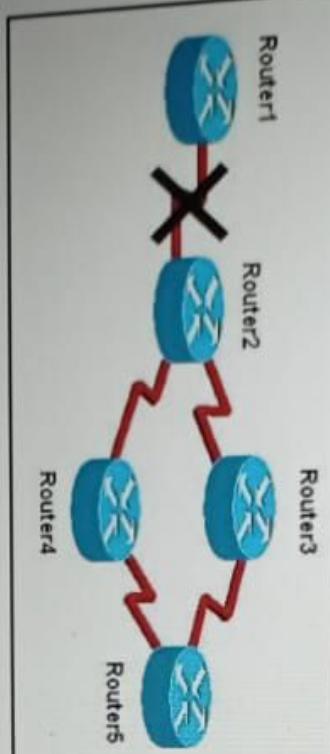
17 18 19 20 21

25 26 27 28 29

30

Finish attempt...

Time left 0:01:03



Select one:

- route poisoning
- error condition
- count to infinity
- split horizon

Finish attempt...

The following table indicates the values of the M bit and the Fragmentation Offset field of the IP header.

MF	Fragment Offset
1	0
1	$i=0$
0	$i=0$
0	0

→ P

→ Q

→ R

→ S

From the above four types of packets (denoted as P,Q,R and S) , which packet can be an unfragmented original packet with the size which is smaller than the MTU of the layer 2 ?

Select one:

- S
- Q
- P
- R

Online Exams

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Which of the following bridge IDs wins election as root, assuming that

Select one:

- 4096102001111111
- 4097020022222222
- 3276802001111111
- 409210032323231
- 3276902002222222

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

QUESTION

Sri Lanka Institute of Information Technology

An IP packet contains 3800 bytes of standard header and data. Identification number of this IP packet is 25200. Ethernet protocol is used in the Data Link Layer and the MTU of the Ethernet frame is 1500 bytes.

How many IP Fragments are created?

Select one:

- 3
- 2
- 5
- 1
- 4

$$\frac{3800}{1500} = 2.7$$

Next page

Session 10

Session 10
IP Header

Section 10

Topic presented

Method used

4.00

IT Fragmentation

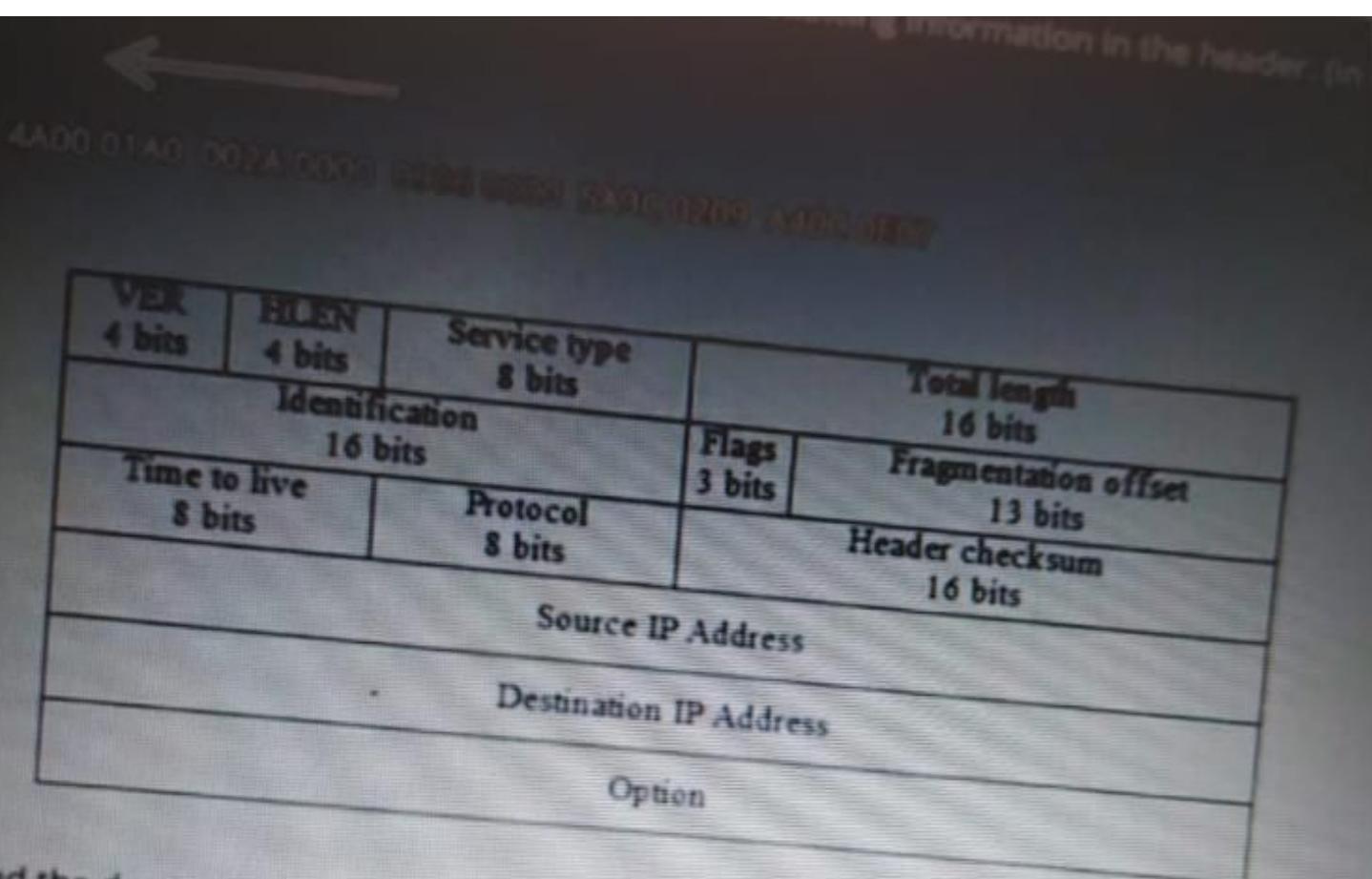
The following table indicates the values of the M bit and the Fragmentation Offset field of the IP header.

MF	Fragment Offset
1	0
1	1=0
0	1=0
0	0

• P
• Q
• R
• S

From the above four types of packets (denoted as P, Q, R and S), which packet can be an unfragmented original packet with the size smaller than the MTU of the layer 2?





Find the destination network address.

Select one:

164.12.14.7

90.0.0.0

90.60.2.9

164.12.0.0

90.62.0.1

- | | |
|------------------------------|------------------------------------|
| Connectivity: 192.168.1.0 | |
| Connectivity: 192.168.1.2 | No connectivity: 192.168.1.2 |
| Connectivity: 192.168.1.21 | Forward connectivity: 192.168.1.21 |
| Connectivity: 192.168.1.255 | |
| No Connectivity: 192.168.1.0 | |

The following table indicates the values of the M bit and the Fragmentation Offset field of the IP header.

MF	Fragment Offset
1	0
1	$f=0$
0	$f=0$
0	0

→ P
→ Q
→ R
→ S

From the above four types of packets (denoted as P,Q,R and S), which packet can be an unfragmented original packet with the size which is smaller than the MTU of the layer 2?

Select one:

S

Q

R



Online Exams

Sri Lanka Institute of Information Technology

4

owered

it of

question

Identify the purpose of ICMP?

Select one:

Send error and control messages

Collision detection

Transporting routing updates

Avoiding routing loops



Sri Lanka Institute of Information Technology

A device has the IP address of 192.168.20.166/27.
What is the last usable IP address of the network of the above?

Select one:

- 192.168.20.254
- 192.168.20.158
- 192.168.20.191
- 192.168.20.159
- 192.168.20.255
- 192.168.20.190



101 | 00110

B C

| 01 | 1111

| 9 | - |

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.

Fragment
Offset

20	176
----	-----

0

20	176
----	-----

22

20	148
----	-----

44

What is the HLEN of the IP Header of the second fragment?

Select one:

- 5
- 20
- 176
- 44
- 4
- 160

20
—
4

In distance vector routing, each node periodically shares its routing table with _____.

Select one:

- Every other node
- Its immediate neighbours
- One neighbour
- Selected Multiple Neighbours

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 is the value of the TTL field of the second fragment?

11:06

- Create new contact
- Add to a contact
- Send a message

176

msi



Online Exams

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Which command gives the view of recently used commands?

Select one:

- view history
- set history
- show history
- show protocol

Q ✓

The following table indicates the values of the M bit and the Fragmentation Offset field of the IP header.

MF	Fragment Offset	
1	0	P
1	$\neq 0$	Q
0	$\neq 0$	R
0	0	S

From the above four types of packets (denoted as P,Q,R and S) , which packet can be an unfragmented original packet with the size which is smaller than the MTU of the layer 2 ?

Select

- A. S
- B. Q
- C. P
- D. R



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Question 4

Not yet answered

Marked out of

0

Flag question

You are a system administrator and you want to deny access to a group of computers with addresses 172.30.16.0 to 172.30.3. What wildcard mask would you use?

Select one:

- 0.0.255.255
- 0.0.255.255
- 0.0.127.255
- 0.0.31.255
- 0.0.15.255



Online Exams

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9
answered
out of
question

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.



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Question 5

yet answered

marked out of

flag question

Which statement(s) about IPv4 and IPv6 addresses are true?

1. An IPv6 address is 32 bits long, represented in hexadecimal.
2. An IPv6 address is 128 bits long, represented in decimal.
3. An IPv4 address is 32 bits long, represented in decimal.
4. An IPv6 address is 128 bits long, represented in hexadecimal.

✓ ✓

Select one:

- 1 and 2
- 1 and 3
- 3 and 4
- 2 and 4

3 and 4

A Company has the 210.106.14.0 /24 network. How many usable subnetworks and usable host addresses this would provide?

Select one:

- 4 networks with 64 hosts
- 1 network with 254 hosts ✓
- 6 networks with 30 hosts
- 2 networks with 128 hosts

Next page

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

Select one:

- BGP
- RIP
- OSPF

None of the above

Consider classful addressing and choose the broadcast address of 25.10.100.200.

Select one:

- 25.0.0.0
- 25.10.100.255
- 25.255.254.255
- 25.255.255.255

310 MEMBERS



Lakindu Minuka



Mindula Yasith



Yaxasri



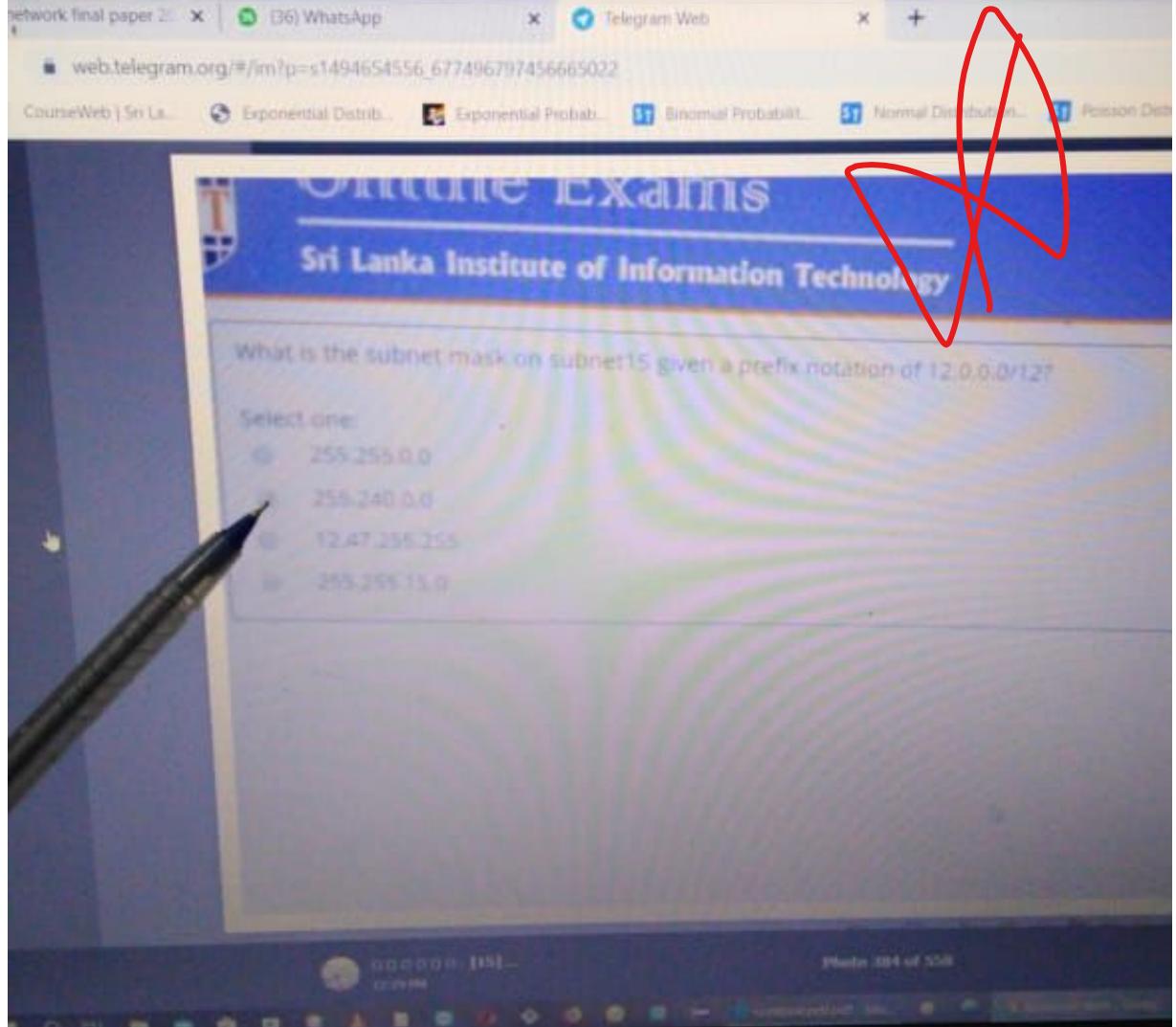
buddhika senanayaka



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. ✓



pp

X Telegram Web

554556_677496797456665022

rib... Exponential Probab... ST Binomial Probabilit... ST Normal Distribution...

 Online Exams
Sri Lanka Institute of Information Tech

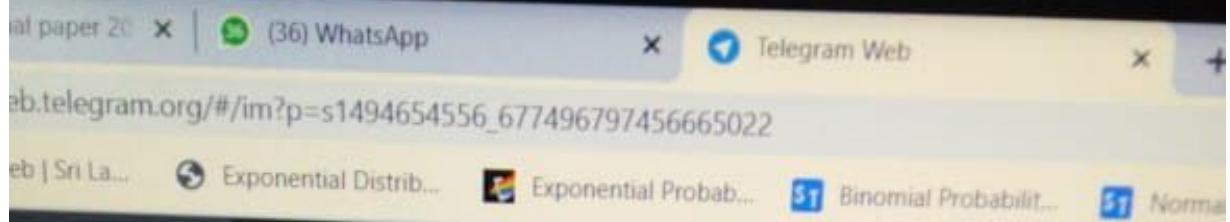
If the first byte of a Datagram is 4000

Select one:

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

Photo 355 of 356

3:25 PM



Online Exams

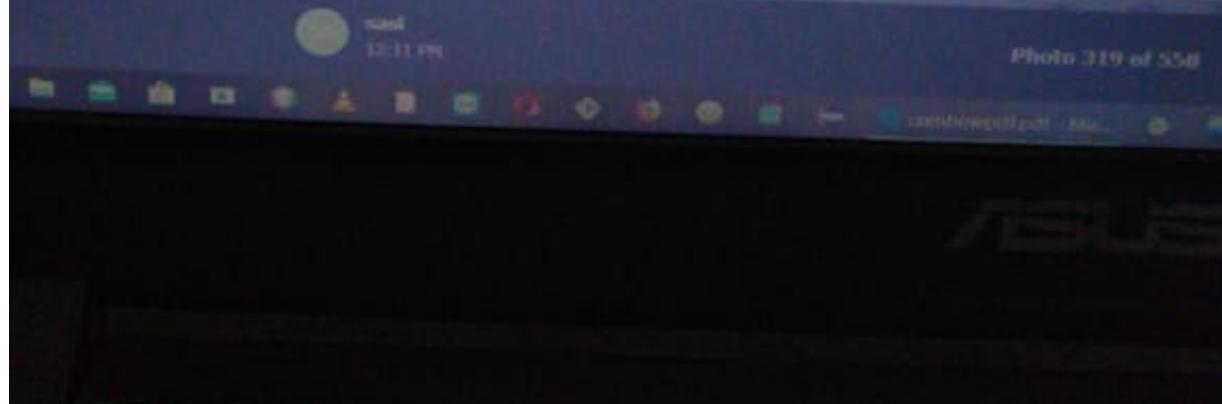
Sri Lanka Institute of Information Technology

Consider a TCP client and a TCP server running on two different machines. Suppose the client terminates the connection and a _____ P _____ segment is sent to the server which is received by the client-side TCP.

Identify 'P' and 'Q' respectively

Select one:

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



Online Exams

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Which of the following cannot be used to store data in a database?

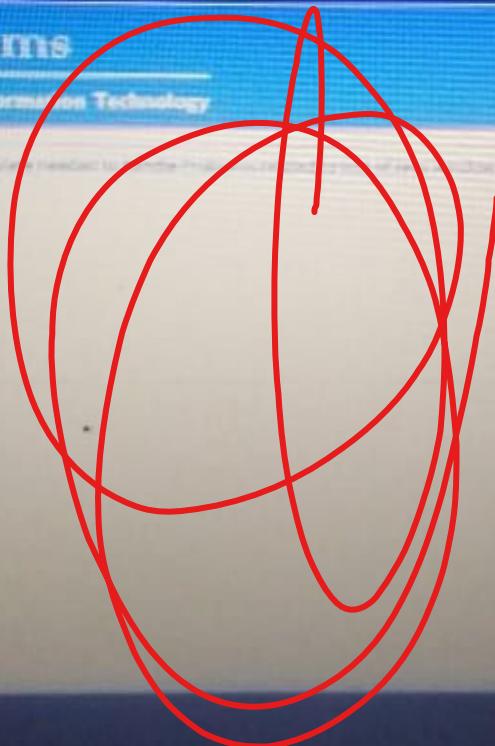
Select one or more:

Temporary

Permanent

Intermediate

Temporary



Institute of Information Technology

A device has the IP address of 192.168.20.166/26.
What is the last usable IP address of the network of the above device?

Select one:

- 192.168.20.190
- 192.168.20.159
- 192.168.20.158
- 192.168.20.254
- 192.168.20.191
- 192.168.20.255

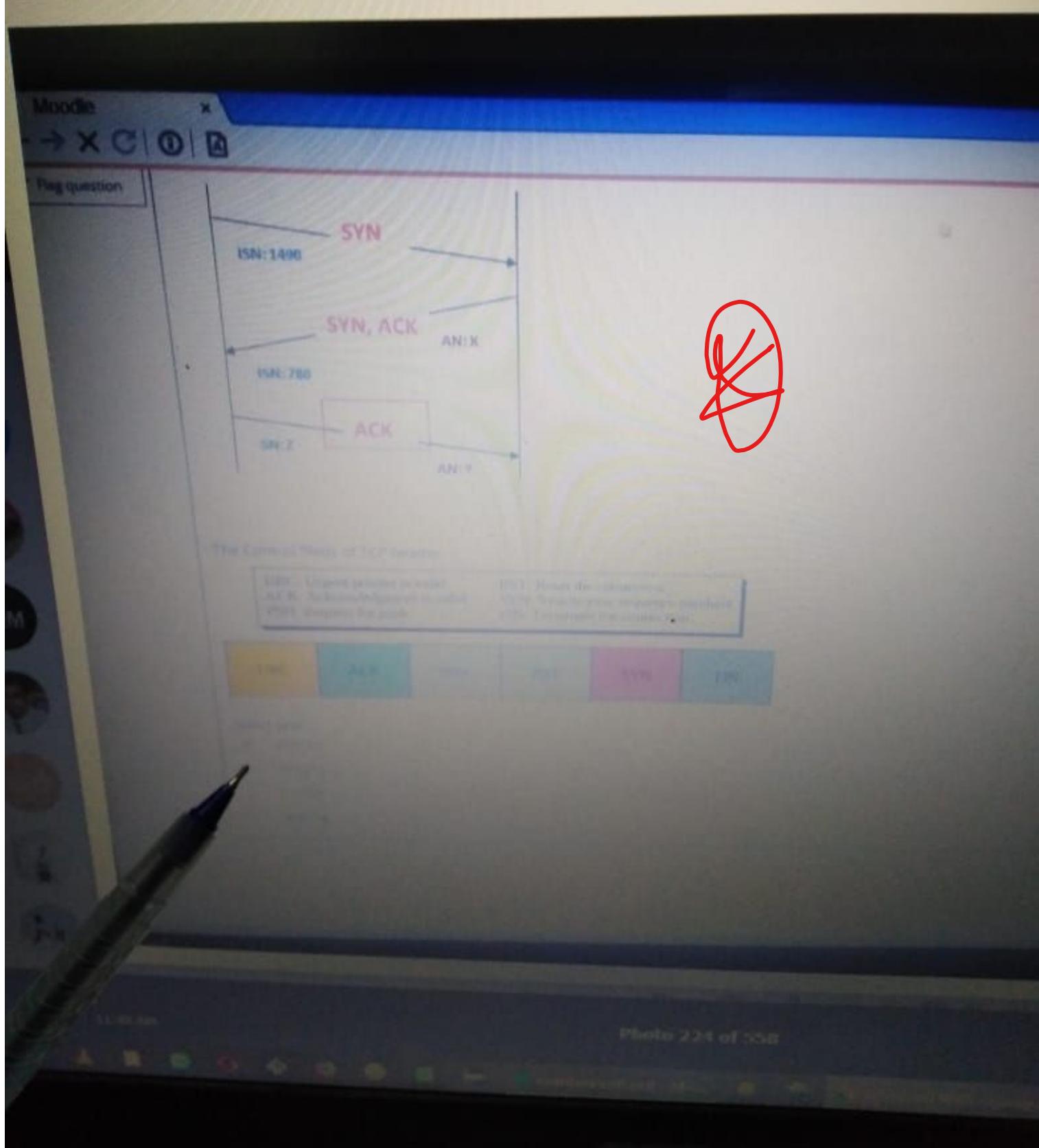
556_677496797456665022

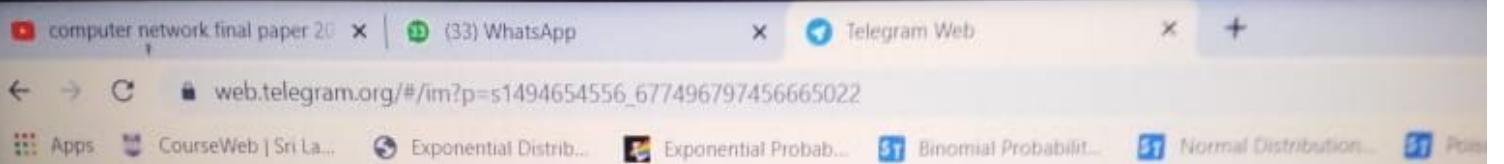
Exponential Probab...

Binomial Probabilit...

Normal Distribution...

Poisson





Online Exams

Sri Lanka Institute of Information Technology

Find the sub-network address for the IP address of 201.14.78.63 and the subnet mask 255.255.255.128.

Select one:

- 201.14.78.64
- 201.14.78.255
- 201.14.78.95
- 201.14.78.224

A red circle highlights the second option, "201.14.78.255".

000000-[85] 11:54 AM

Photo 245 of 558

ASUS



x | (32) WhatsApp x Telegram Web

n.org/#/im?p=s1494654556_677496797456665022

Exponential Distrib... Exponential Probab... Binomial Probabilit... Normal Distribution...

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

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

Select one:

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



Online Exams

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Question 4

Not yet answered

Marked out of
1.00

Flag question

Which is not a valid type of routing

Select one:

- Default routing
- Custom routing
- Static routing
- Dynamic routing



REVIEWING THE AUDITORS

Sri Lanka Institute of Information Technology

Which can be used in distance vector routing protocols to prevent rou

- A. Spanning Tree Protocol
- B. Shortest path first tree
- C. Split horizon ✓
- D. Hold-down timers ✓

Select one:

- Both C and D ✓
- Only A
- Only C
- Both A and D



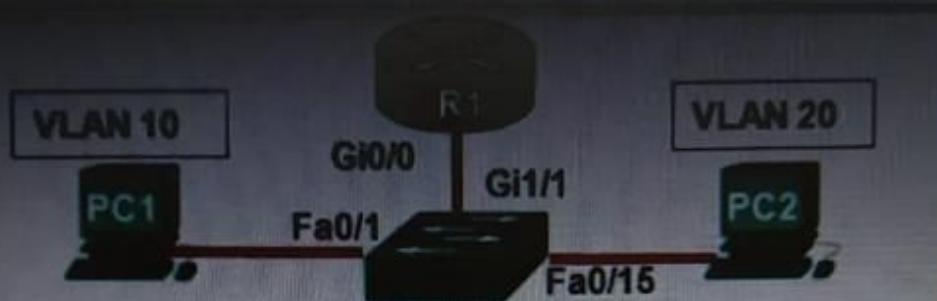
Which of the following statements is/are true about metrics used in routing p

- A - A metric is the administrative distance of a routing protocol
- B - A metric is a measure of trustworthiness of a routing protocol
- C - A metric is a measure of trustworthiness of a route

Select one:

- C only
- A only
- B only
- A and C only
- A and B only

Q1. In the network diagram below, you are verifying the configuration of interface Gi0/0 on R1 and you find that PC2 cannot communicate with PC1.



```
R1# show running-config

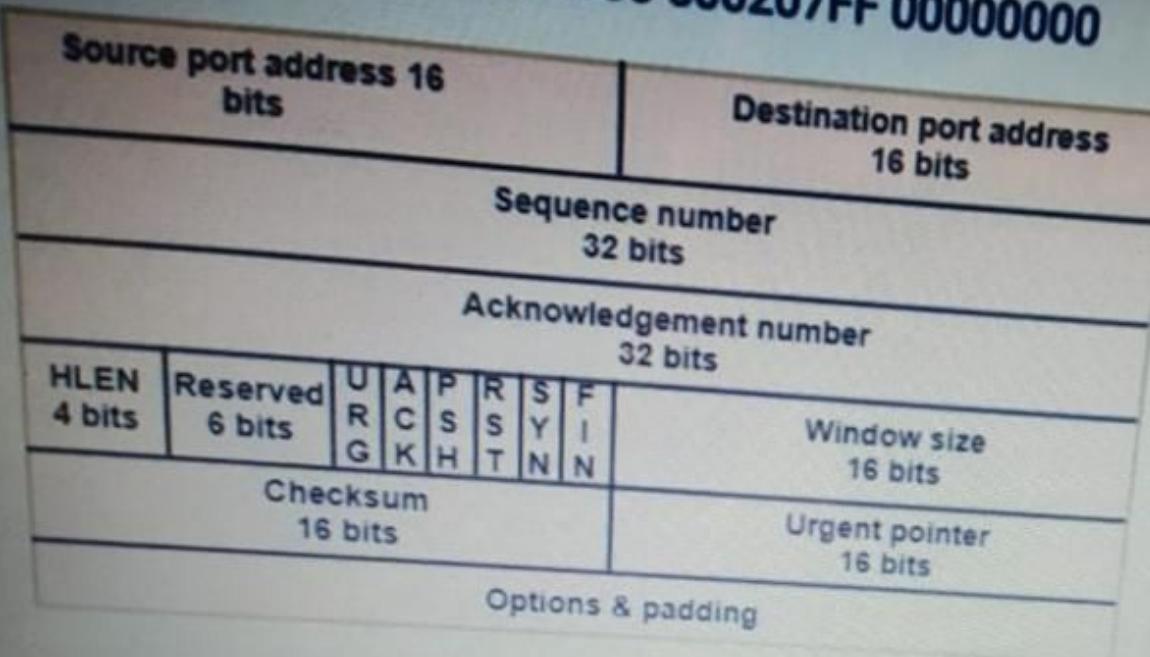
interface GigabitEthernet0/0
  no ip address
!
interface GigabitEthernet0/0.5
  encapsulation dot1Q 5
  ip address 172.16.10.254 255.255.255.0
!
interface GigabitEthernet0/0.20
  encapsulation dot1Q 20
  ip address 172.16.20.254 255.255.255.0
!
<output omitted>
```

cause of the problem?

Select one:

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

05320017 00000001 00000000 500207FF 00000000



What is the destination port number in Decimal?

Answer:

23



Online Exams

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In which of the following modes in Cisco's IOS can issue show commands normally?

Select one:

- Privileged
- Interface Configuration
- Line Configuration
- User and Privileged
- Global Configuration
- User

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

Client

Server

SN : 1200
AN : L

1440

FIN

ACK

SN : 1490

AN : X

1201

SN : M

AN : Y

1441

1201

SN : N

AN : Z

1492

FIN

ACK

Select one:

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

23

4:05 PM

Rashi Perera 

SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Sri Lanka Institute of Information Technology

Which TCP based timer/timers prevents a long idle connection?

Select one or more:

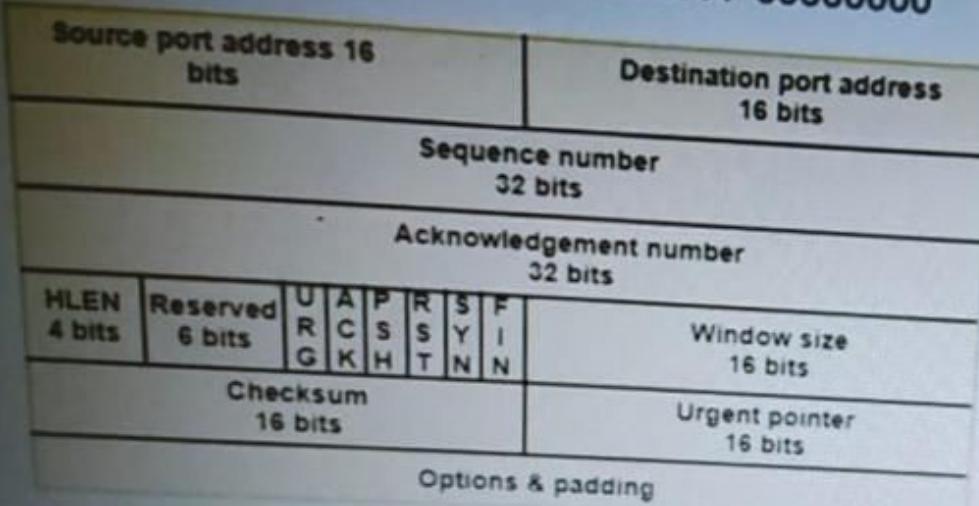
- Persistence
- Keepalive
- Retransmission
- Time waited

Please help

SHAN

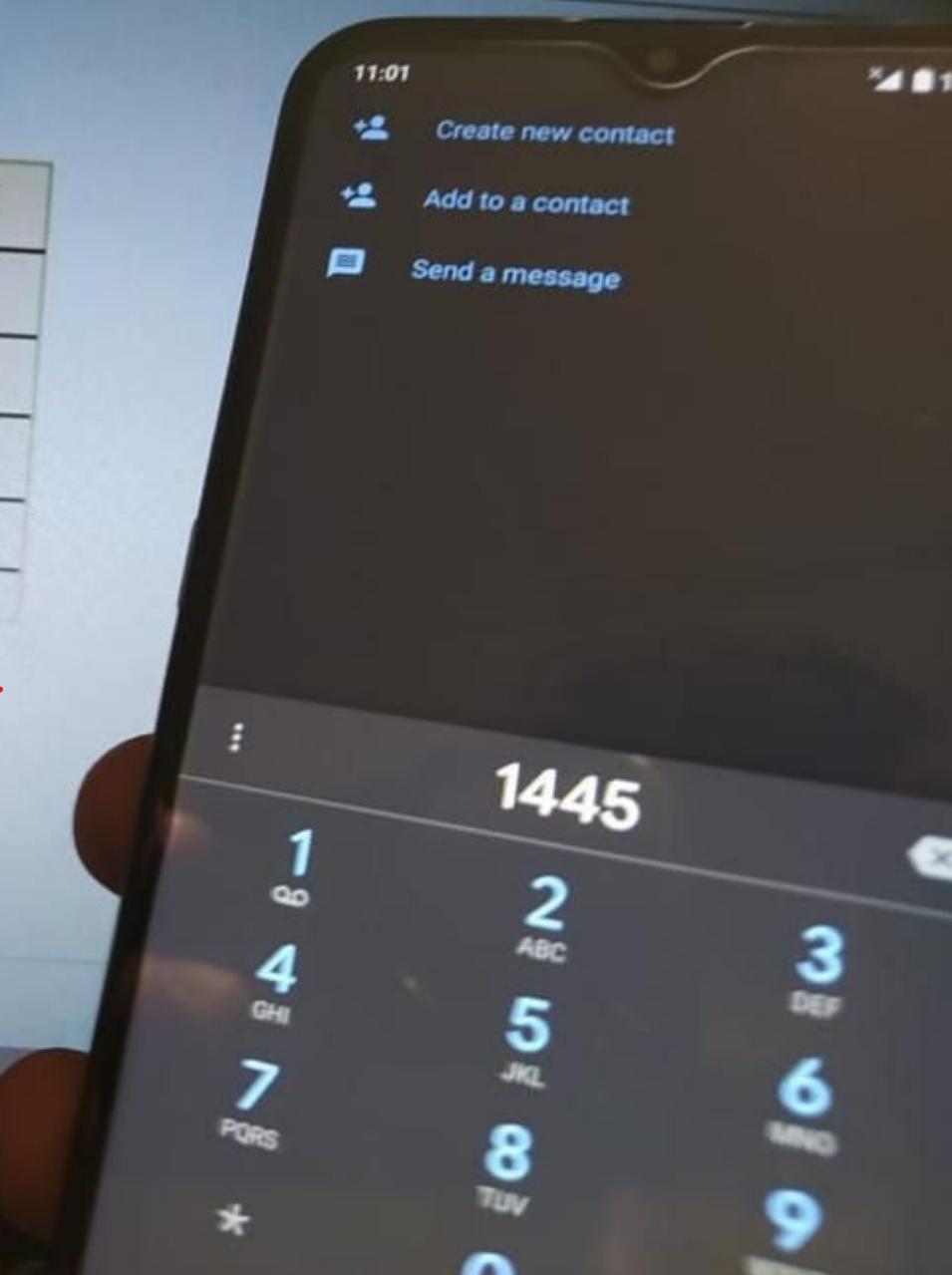
The following is a dump of a TCP header in hexadecimal format.

05A50017 00000001 00000000 500207FF 00000000



What is the source port number in Decimal?

1445



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. *(X)*
- 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. *(X)*
- 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

shut down ~~the~~

check 

Consider classful addressing and choose the broadcast address of 25.10.100.200.

Select one:

- 25.0.0.0
- 25.10.100.255
- 25.255.254.255
- 25.255.255.255

310 MEMBERS



Lakindu Minuka



Mindula Yasith



Yaxasri



buddhika senanayaka



Online Exams

Sri Lanka Institute of Information Technology

Question 11

Not yet answered

Marked out of

0.00

Flag question

Identify the purpose of ICMP?

Select one:

- Collision detection
- Send error and control messages
- Avoiding routing loops.
- Transporting routing updates

4B00 0190 002A 0000 0906 0000 5A3C 0209 440C 0E07

Find the size of the IP header? (in Bytes)



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

Select one:

- 24
- 11
- 20
- 44
- 31



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

- A. 32769:0200.1111.1111
- B. 32769:0200.2222.2222
- C. 4097:0200.1111.1111
- D. 4097:0200.2222.2222
- E. 40961:0200.1111.1111

 Answer & Explanation

 Report

Answer : [C]

Explanation :

The smallest numeric bridge ID wins the election.

SRI Lanka Institute of Information Technology

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

20	176
Fragment Offset	0

20	176
Fragment Offset	22

20	148
Fragment Offset	44

What is the size (in Bytes) of the IP packet received from the upper layer?

Select one:

- 480
- 500
- 216
- 520
- 196
- 176

Red X marks the selected answer: 500

An IP packet's fragments have arrived with the following information in the header (in hex):

4800 0190 002A 0000 0906 0000 5A3C 0209 440C 0E07

Find the size of the IP header? (in Bytes)

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

Select one:

31

11

44

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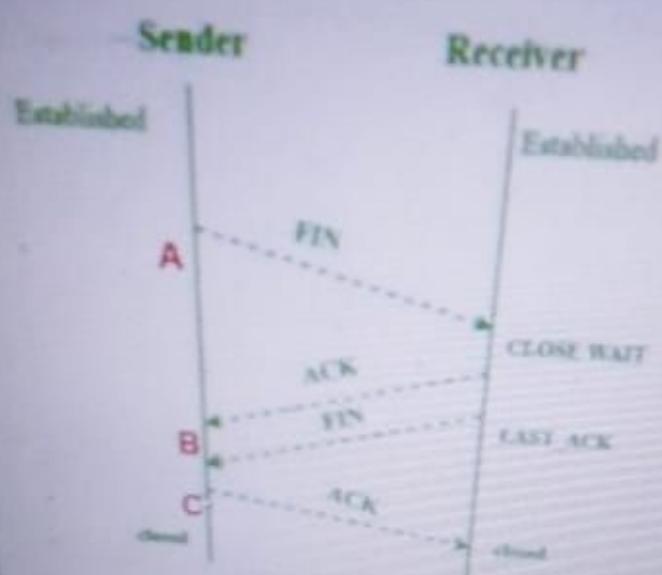
274

275

276

Sri Lanka Institute of Information Technology

Identify the TCP State denoted by "A".



- Select answer:
- A) FIN_WAIT_2
 - TIME_WAIT
 - SYN_RECV
 - LISTEN
 - FIN_WAIT_1



Online Exams

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Question 1

Not yet answered

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1.00

Flag question

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

Select one or more:

- Client
- Static
- Dynamic
- Transparent
- Server



Lone Wolf
11:36 AM

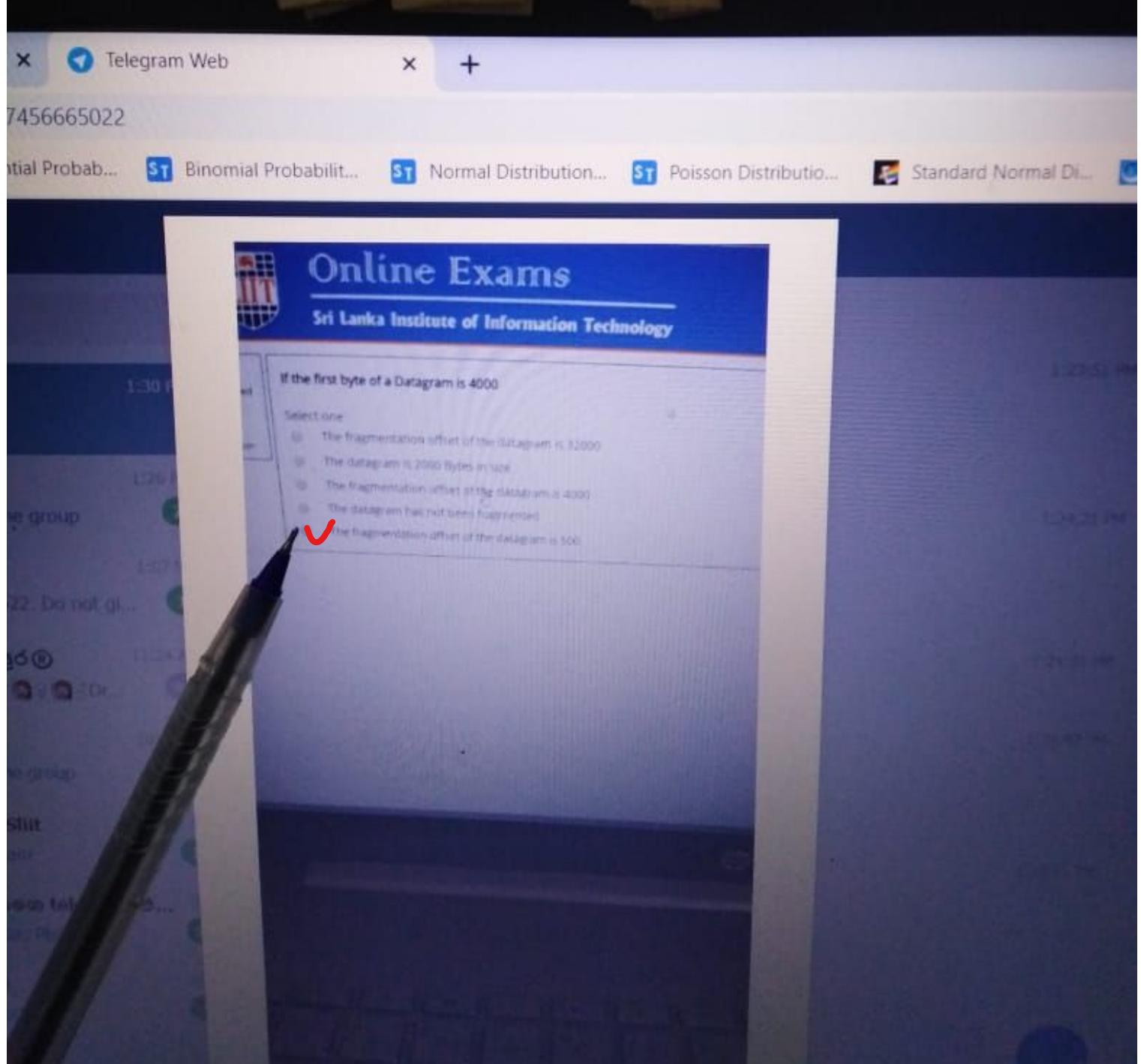
Photo 186 of 558



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ASUS



Telegram Web

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Binomial Probabilit...

Normal Distribution...

Poisson Distributio...



 **Online Exams**
Sri Lanka Institute of Information Technology

Routing Protocol used inside an autonomous system is referred to as

Select one:

- Border Gateway Protocol
- Link State Protocol
- Interior Gateway Protocol
- Exterior Gateway Protocol

A large red 'X' is drawn over the question text.

Online Exams

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Question 1
Not yet answered
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Flag question

Which one of the following devices is network layer protocol dependent?

Select one:

- Repeater
- Router
- Bridge

ANSWER

A pen is pointing at the "Router" option in the list.

Telegram Web

22

Binomial Probability...
Normal Distribution...
Poisson Distribution...
Standard Normal D...
Hypothesis Testing...

The following table indicates the values of the M bit and the Fragmentation Offset field of the IP header.

MF	Fragment Offset
1	0
1	$\neq 0$
0	$\neq 0$
0	0

P
Q
R
S

From the above four types of packets (denoted as P,Q,R and S), which packet can be the sample values of a last fragment?

Select one:

- P
- Q
- R
- S

Photo 215 of 558

3 WhatsApp 4 Telegram Web

5 Exponential Distrib... 6 Exponential Probabil... 7 Binomial Probabilit... 8 Normal Distribution... 9 Poisson Distributio... 10 Standard Nor

P.S.

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Flag question

Sri Lanka Institute of Information Technology

Which of these is not applicable for IP protocol ?

Select one:

- Offer reliable service
- Offer unreliable service
- Does not offer error reporting
- Connection-less

Photo 354 of 500

ASUS

g/#/im?p=s1494654556_677496797456665022

Exponential Distrib...

Exponential Probab...

Binomial Probabilit...

Normal Distribution.

Question 7

Not yet answered

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1.00

Flag question

Based on the routing table shown below, when the router receives a packet destined to traffic to?

Router#show ip route

Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2
* - CDR, * - candidate default

Gateway of last resort is 10.22.18.1 to network 0.0.0.0

10.0.0.0/8 is variably subnetted, 4 subnets, 4 masks

C 10.22.18.1/24 is directly connected, FastEthernet0/0

S 10.0.0.0/8 [1/0] via 10.22.18.21

S 10.10.0.0/16 [1/0] via 10.22.18.31

S 10.10.10.0/24 [1/0] via 10.22.18.41

S 10.10.10.10/32 [1/0] via 10.22.18.51

S* 0.0.0.0/0 [1/0] via 10.22.18.1

router#

Select one:

10.22.18.1

10.22.18.41

10.22.18.51

10.22.18.21

10.22.18.61

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omial Probabilit...

ST Normal Distribution...

ST Poisson Distributio...

 Standard Deviation

Online Exams

Sri Lanka Institute of Information Technology

What are the following point states are stable or unstable when FDF has complicated convergence?

- Asymptotic stable
- Unstable
- Marginally stable
- Divergent

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Answer Feedback

A) Asymptotic stable
B) Unstable
C) Marginally stable
D) Divergent



Online Exams

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Question 9

Not yet answered

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1.00

Flag question

Which can be used in distance vector routing protocols to prevent routing loops?

- A. Spanning Tree Protocol
- B. Shortest path first tree
- C. Split horizon ✓
- D. Hold-down timers ✓

Select one:

- Only C
- Both C and D
- Both A and D
- Only A



Kannan's Autopilot
Classmate

Photo 289 of 558

ASUS



1494654556_677496797456665022

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Exponential Probab...



Binomial Probabilit...



Normal Distribution...



Poisson

Online Exams

Sri Lanka Institute of Information Technology

Which type of cable is used to connect to a Cisco Console port?

Select one:

- TIA 568B
- Crossover
- Rollover
- Straight Through

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Exponential Probab...

Binomial Probabilit...

Normal Distribution...

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Online Exams

Sri Lanka Institute of Information Technology

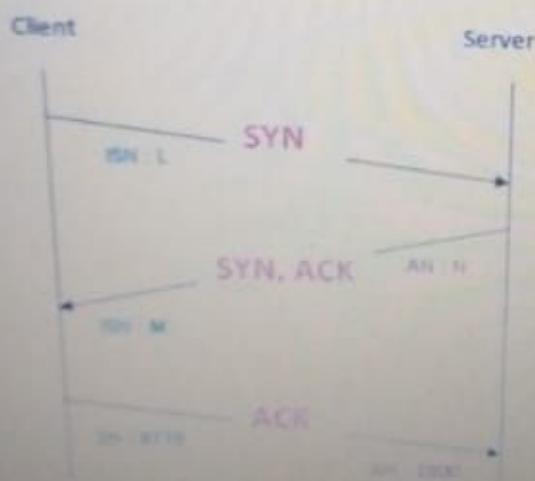
Question 9

Not yet answered

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Flag question

Identify the values of L, M, N respectively for the following connection establishment process b



x



Telegram Web

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nential Probab...



Binomial Probabilit...



Normal Distribution...



Poisson Distributio...

Online Exams

Sri Lanka Institute of Information Technology

The owner of a company is concerned about security on your network and wants to make sure that no one can happen to view a configuration on your router. What command will encrypt all passwords on the router?

Select one:

- Router(config)#enable secret password
- Router(config)#service password-encryption
- Router#service password-encryption
- Router#enable secret password

p

X Telegram Web

X

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Exponential Probab...

Binomial Probabilit...

Normal Distribution...

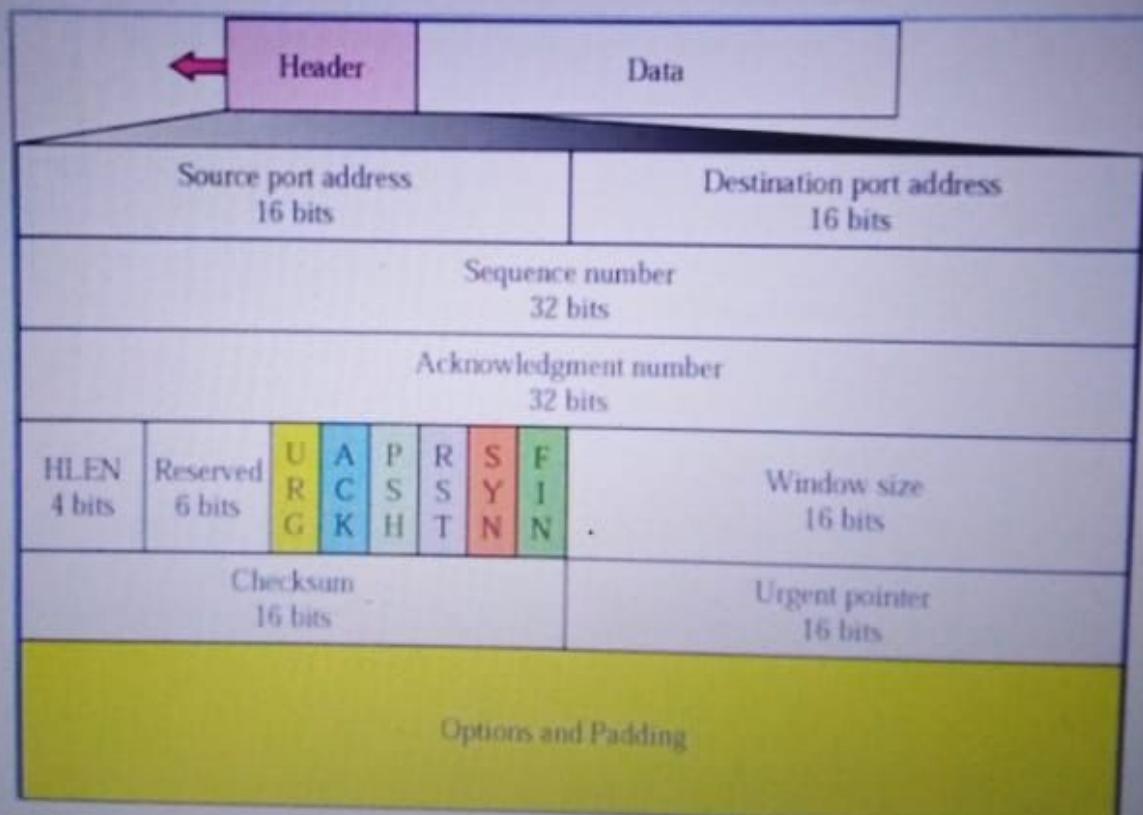
Poisson Distributio...

Provide answers to the questions given below.

9C400017000007D000000C51E0121000000000000 . . .

| | |

TCP Header Format.



1. The Acknowledgement number is (in Decimal):

2. The Sequential number is (in Decimal):

Sri Lanka Institute of Information Technology

Which of the following port states are stable states used when ST

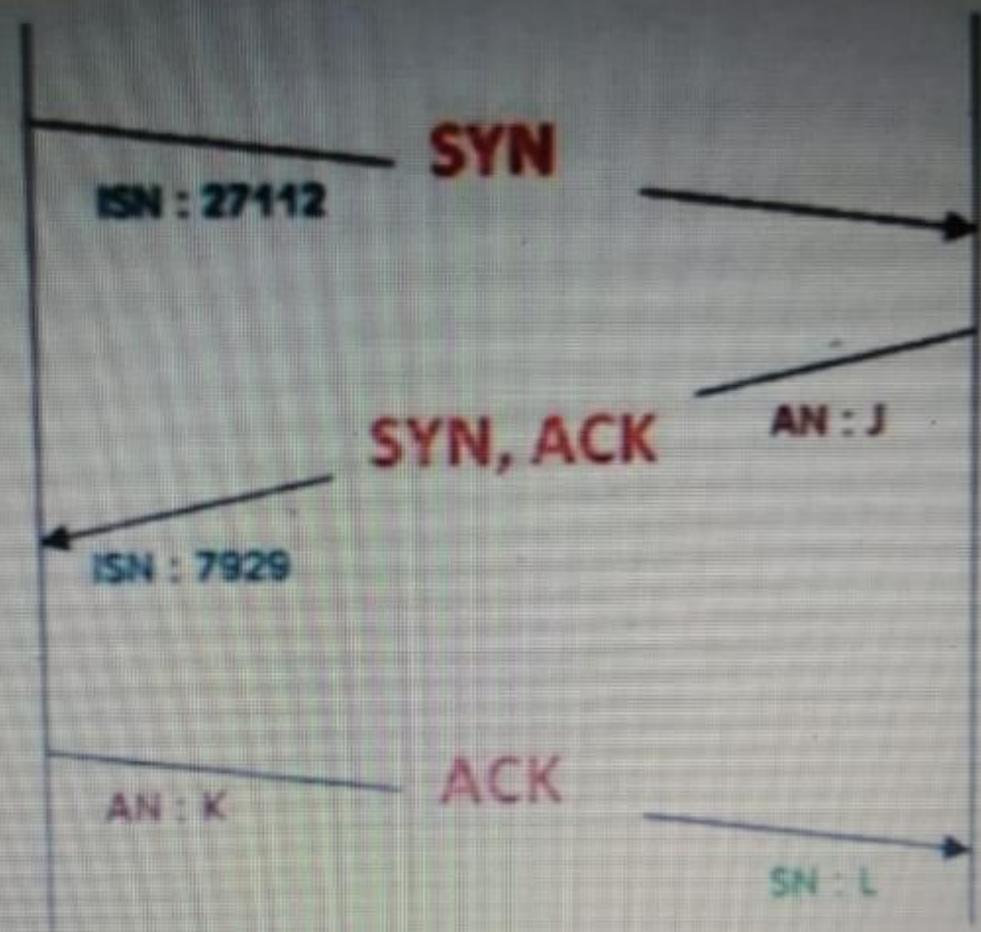
Select one or more:

- Listening ~
- Learning ~
- Blocking ~
- Discarding
- Forwarding ,

Disable

Client

Server



Select one:

27113, 7939, 27114

27112, 7929, 27113

27112, 7939, 27113

27112, 7939, 27114

Online Exams

Sri Lanka Institute of Information Technology

Refer the following router output:

Router#show cl

% Ambiguous command: "show cl"

What is the reason to receive this error message?

Select one:

- The command is being executed from the wrong router mode
- There is more than one show command that starts with the letters d
- There is no show command that starts with d
- The command requires additional options or parameters

Which of the following statement would best describe the 192.192.192.56 IP address and 255.255.255.240 subnet?

Select one:

- This is a Class B address that is masking 12 bits for subnetting, yielding 14 valid subnets.
- The subnet mask is borrowing 4 host bits which creates 16 usable subnets with 14 usable hosts per subnet.
- This is a Class C address that is using 4 host bits which creates 14 subnets with 14 hosts per subnet.
- This is a Class C address that is using 4 host bits which creates 16 usable subnets with 16 usable hosts per subnet.

Next page

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100

Flag question

Router#show ip route

Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2
* - ODR, * - candidate default

Gateway of last resort is 10.22.18.1 to network 0.0.0.0

10.0.0.0/8 is variably subnetted, 4 subnets, 4 masks
C 10.22.18.1/24 is directly connected, FastEthernet0/0
S 10.0.0.0/8 [1/0] via 10.22.18.21
S 10.10.0.0/16 [1/0] via 10.22.18.31
S 10.10.10.0/24 [1/0] via 10.22.18.41
S 10.10.10.10/32 [1/0] via 10.22.18.51
* 0.0.0.0/0 [1/0] via 10.22.18.1

router#

Select one:

- 10.22.18.31
- 10.22.18.51
- 10.22.18.1
- 10.22.18.41
- 10.22.18.21

Online Exams

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an engineer needs to delete the second line in ACL 101, which currently has four commands.

Select one or more:

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

23

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Interface ID of the IPv6 address generated by EUI64 method is 02BB:CCFF:FE00:1122



C Address of the device is



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A device has the IP address of 192.168.20.166/27.

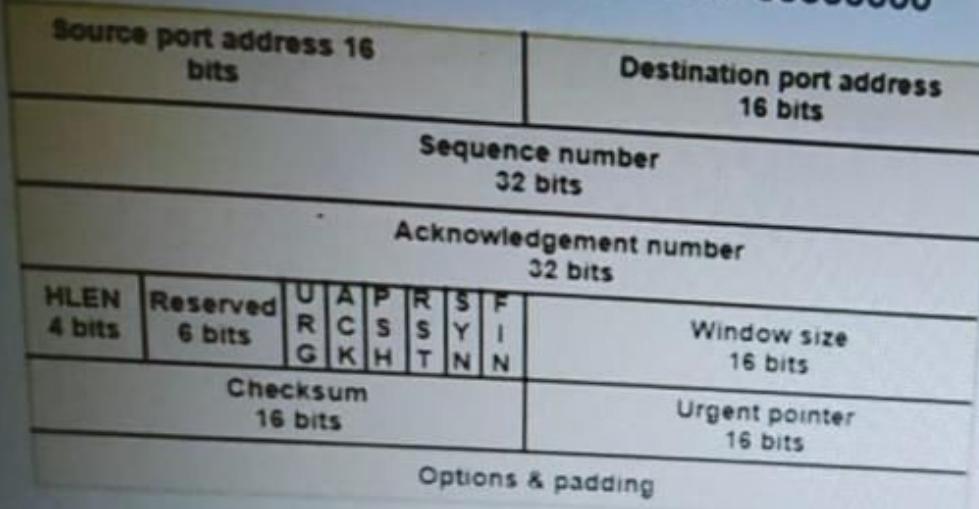
What is the last usable IP address of the network of the above device?

Select one:

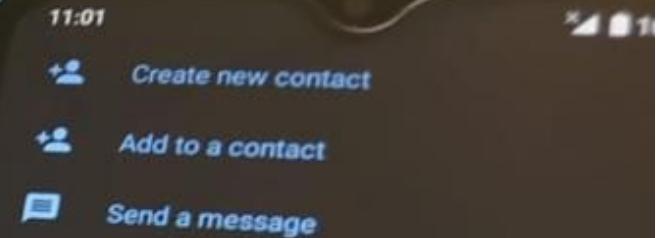
- 192.168.20.159
- 192.168.20.255
- 192.168.20.190
- 192.168.20.254
- 192.168.20.158
- 192.168.20.191

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

05A50017 00000001 00000000 500207FF 00000000



What is the source port number in Decimal?





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.

**Fragment
Offset**

20	176
----	-----

0

20	176
----	-----

22

20	148
----	-----

44

What is the HLEN of the IP Header of the second fragment?

Select one:

- 160
- 20
- 4
- 44
- 176
- 5

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Online Exams

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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:

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



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Question 2

Not yet answered

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Under which circumstance is needed to configure a clock rate on a serial interface?

Select one:

- When the interface is terminated with the DTE end of the cable.
- When the interface is terminated using a loopback adapter.
- When the interface is terminated using the DCE end of the cable. ✓
- When the interface is terminated using a Category 3 Cable.

Next pa

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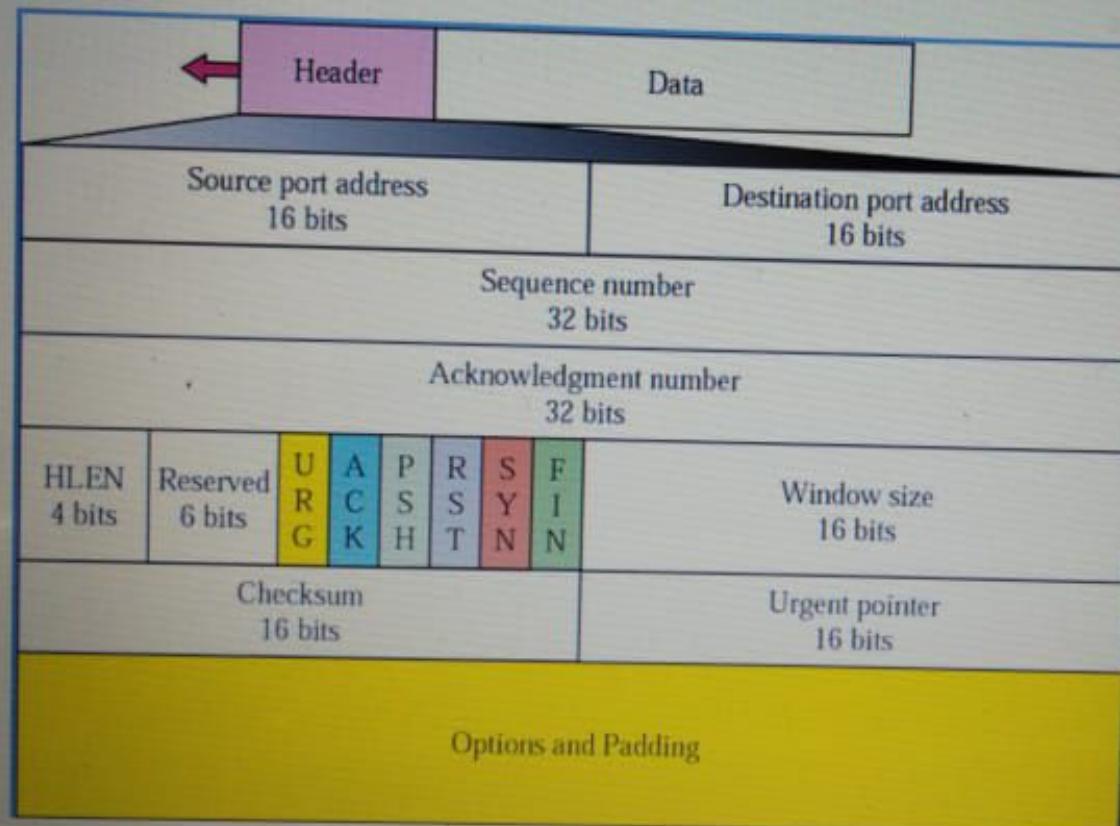
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Flag question

Provide answers to the questions given below.

9C40001700007D000000C51E0121000000000000....

TCP Header Format.



1. The Acknowledgement number is (in Decimal)

2. The Control bits

DISCLAIMER

MULTIPLE CHOICE

1 2 3 4

8 9 10 11

15 16 17 18

22 23 24 25

29 30 31 32

36 37 38 39

STRUCTURED QUESTIONS

41 42 43

FEEDBACK

44

Finish attempt

Time left 1:48:02

Marked out of
1.00

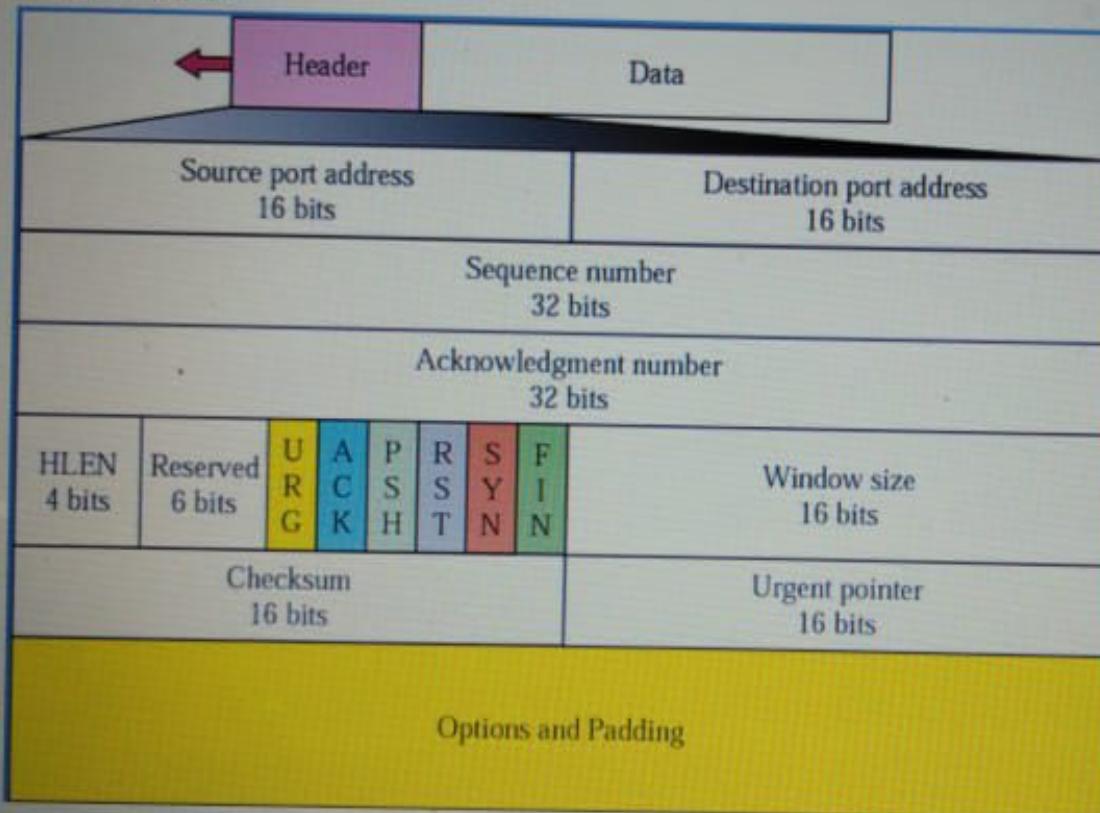
Flag question

Provide answers to the questions given below.

9C40001700007D000000C51E0121000000000000 . . .

DISCLAIMER

TCP Header Format.



1. The Acknowledgement number is (in Decimal):

2. The Sequential number is (in Decimal):

MULTIPLE CHOICE

1	2	3	4
8	9	10	11
15	16	17	18
22	23	24	25
29	30	31	32
36	37	38	39

STRUCTURED QUEST

41 42 43

FEEDBACK

44

Finish attempt ...

Time left: 1:47:48

Which of the following would be correct if we borrowed 8-bits when using the following IP information?

IP address 121.34.45.1

Subnet mask 255.0.0.0

ture reference

Select one:

- A new mask of 255.255.0.0 would yield 256 usable networks with 1024 usable hosts per network.
- A new mask of 255.255.0.0 would yield 256 usable networks with 1022 usable hosts per network.
- Borrowing 8 host bits would yield 256 usable networks, with 65,534 usable hosts per network.
- Borrowing 8 host bits would yield 254 usable networks, with 65,534 usable hosts per network.

}



Online Exams

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ion 5

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ng question

What is the host ID portion of the IP address 191.154.25.66 ,if classful addressing is used?

Select one:

- 191.154
- 66
- 191
- 0.0.25.66,
- 191.154.25
- 25.66

Next page

Question 6

Not yet answered

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1.00**▼ Flag question****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

4

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STRUCTURE

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FEEDBACK

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The following table indicates the values of the M bit and the Fragmentation Offset field of the IP header.

MF	Fragment Offset	
1	0	P
1	$\neq 0$	Q
0	$\neq 0$	R
0	0	S

From the above four types of packets (denoted as P,Q,R and S) , which packet can be an unfragmented original packet with the size which is smaller than the MTU of the layer 2 ?

Select one:

- Q
- P
- R
- S



If the first byte of a Datagram is 2000 :

Select one or more:

- The datagram has been fragmented
- The datagram has not been fragmented
- The datagram is 2000 Bytes in size.
- The fragmentation offset of the datagram is 16000
- The D bit value is Zero
- The fragmentation offset of the datagram is 250.
- The fragmentation offset of the datagram is 2000



Online Exams

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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

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



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Question 8

Not yet answered

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Flag question

In distance vector routing, each node periodically shares its routing table with _____.

Select one:

- Every other node
- Its immediate neighbours
- One neighbour
- Selected Multiple Neighbours

Next page

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36

What is the eighth usable host IP address in the subnet 210.29.144.64/27?

Select one:

- 210.29.144.8
- 210.29.144.40
- 210.29.144.71
- 210.29.144.128
- 210.29.144.73
- 210.29.144.72

**Question 5**

Not yet answered

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1.00

A small purple square icon with a white flag-like symbol.

Which of the following statements is/are true about metrics used in routing protocol?

- A - A metric is the administrative distance of a routing protocol
- B - A metric is a measure of trustworthiness of a routing protocol
- C - A metric is a measure of trustworthiness of a route

Select one:

- A and C only
- B only
- C only
- A and B only
- A only



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Question 9

Not yet answered

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Flag question

The management of data flow between computers or devices or between nodes in a network is called as :

Select one:

- Flow control
- Data Management
- Error Control
- Congestion Control
- Data Control



6

Next page

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36

Question 6

Not yet answered

Marked out of
1.00 Flag question

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



4A00 0019 002A 0000 0906 0000 5A3C 0209 440C 0E07

Find the size of the Data field? (in Bytes)

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												



Select one:

- 25
- 19
- 65
- 41
- None of the Above

Question 11

Not yet answered

Marked out of
1.00

Flag question

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



4A00 0019 002A 0000 0906 0000 5A3C 0209 440C 0E07

Find the size of the Data field? (in Bytes)

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									

Select one:

- 25
- 19
- 65
- 41

None of the Above

≡ Quiz navigation

DISCLAIMER



MULTIPLE CHOICE QUE

1	2	3	4
8	9	10	11
15	16	17	18
22	23	24	25
29	30	31	32
36	37	38	39

STRUCTURED QUESTION

41	42	43
----	----	----

FEEDBACK



Which of the following steps below are required to enable IP RIP?

- A - Configure privileged level password
- B - Specify the routing protocol
- C - Specify the given destination network
- D - Specify directly connected networks
- F - Configure static Rip routes

Select one:

- B only
- F and D only
- B and D only
- All the steps are needed

Question 7

Not yet answered

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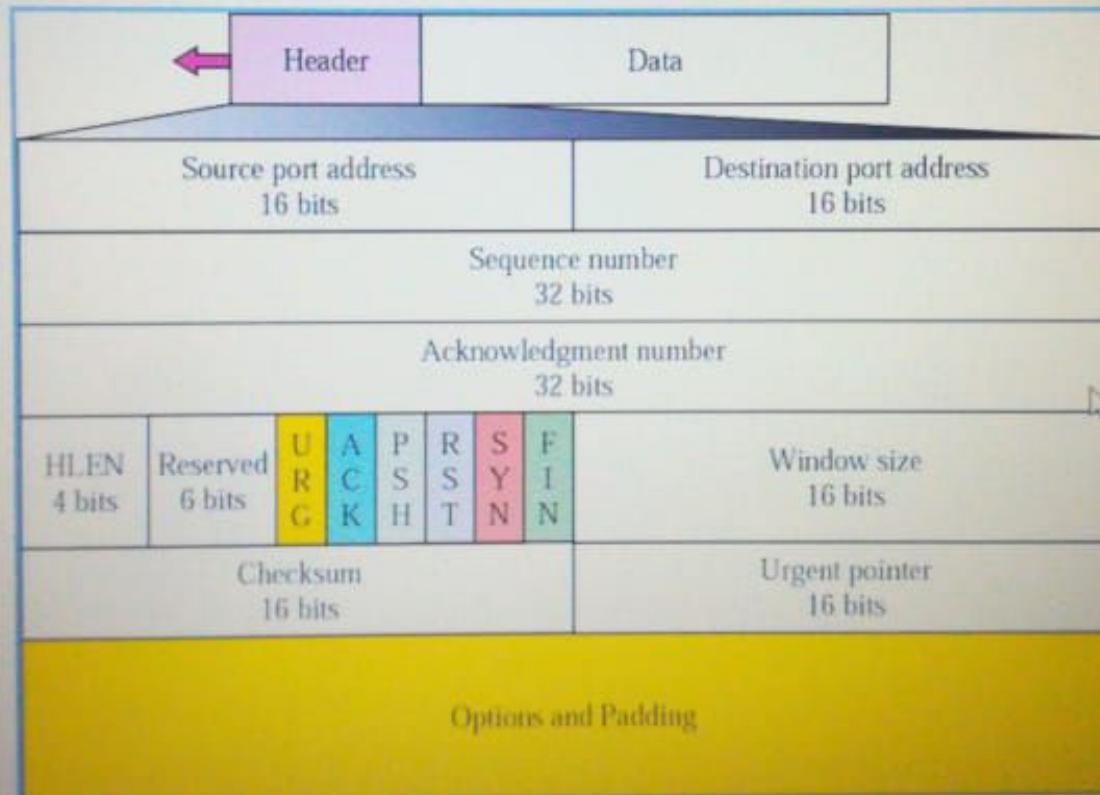
Flag question

Analyze the following TCP header dump given in Hexa-Decimal format.

Provide answers to the questions given below.

9C400017000007D000000C51E0121000000000000 . . .

TCP Header Format.



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≡ Quiz

DISCLAIM

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17 18

25 26

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FEEDBACK

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Finish attempt

Time left 1:20

A Network technician is testing connectivity in a new network. Based on the test results shown in the exhibit which statement is true regarding the connectivity of the devices with the technician's PC?

```
Command Prompt X
Ping 192.168.1.2
Pinging 192.168.1.2 with 32 bytes of data:
Request timed out.
Reply From 192.168.1.2: bytes=32 time=0ms TTL=255
Reply From 192.168.1.2: bytes=32 time=0ms TTL=255
Reply From 192.168.1.2: bytes=32 time=0ms TTL=255

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

ECPing 192.168.1.21
Pinging 192.168.1.21 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.21:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    ECP
```

Select one:

- Connectivity : 192.168.1.0
- No Connectivity : 192.168.1.0
- Connectivity : 192.168.1.2 No connectivity : 192.168.1.21
- Connectivity : 192.168.1.21 No connectivity : 192.168.1.2
- Connectivity : 192.168.1.255

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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

8

Next page

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1	2	3
8	9	10
15	16	17
22	23	24
29	30	31
36	37	38



Online Exams

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13

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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

You are a system administrator and you want to deny access to a group of computers with addresses 172.30.16.0 to 172.30.31.0 Which wildcard mask would you use?

Select one:

- 0.0.31.255
- 0.0.15.255
- 0.0.127.255
- 0.0.255.255
- 0.0.255.255



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it19013138 Fernando

Question 14

Not yet answered
Marked out of
10

Flag question

An IP packet contains 3800 bytes of standard header and data. Identification number of this IP packet is 25200. Ethernet protocol is used in the Data Link Layer and the MTU of the Ethernet frame is 1500 bytes.

How many IP Fragments are created?

Select one:

- 1
- 3
- 4
- 5
- 2

3 8

10

Next page

≡ Quiz navigation

DISCLAIMER



MULTIPLE CHOICE

1	2	3	4
8	9	10	11
15	16	17	18
22	23	24	25
29	30	31	32
36	37	38	39

The Administrator needs to prevent unauthorized users from plugging their laptops into the router. What type of password will help prevent this issue?

Select one:

- Console
- Enable
- Secret
- Telnet
- Line



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Question 8

Not yet answered

Marked out of

0

Flag question

Under which circumstance is needed to configure a clock rate on a serial interface?

Select one:

- When the interface is terminated using the DCE end of the cable.
- When the interface is terminated using a Category 3 Cable.
- When the Interface is terminated using a loopback adapter.
- When the interface is terminated with the DTE end of the cable.



12

Where does a Router store routing tables, ARP cache, and packet buffers ?

Select one:

- ROM
- RAM
- NVRAM
- Flash Memory



Which field of the IP header helps to check rearrangement of the fragments?

Select one:

- M Bit
- HLEN
- TTL
- D Bit
- Offset

**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

[Next page](#)

≡

DIS

1

MUL

1

8

15

22

29

36

STRU

41

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 G A C K P S H R T H S Y T F I 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) ?



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Question 16

Not yet answered

Marked out of
1.00

Flag question

fe00:A000:0000:0001:0000:0000:0000:0092

The abbreviated version of the above IPv6 address is :

Next page



9

answered

out of

question

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

Select one or more:

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

6

a colon (:

Enter an IPv6 address:

fe00:A000:0000:0001:0000:0000:0000:00

Go »

Related Tools: [IPWHOIS Lookup](#) [Decimal IP Calculator](#) [Traceroute](#) [Vector Trace](#) [IPv6 CIDR to Range](#)
[Expand](#) [IPv6 Info](#) [CIDR/Netmask](#) [IPv4 to IPv6 Conversion](#) [Range to IPv6 CIDR](#) [Local IPv6 Range](#)

Compressed Address: [fe00:a000:0:1::92](#)

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 .

<table border="1"><tr><td>20</td><td>176</td></tr></table>	20	176	<table border="1"><tr><td>20</td><td>176</td></tr></table>	20	176	<table border="1"><tr><td>20</td><td>148</td></tr></table>	20	148
20	176							
20	176							
20	148							
Fragment Offset	0	22						



What is the last byte number of the data field of the second fragment ?

Select one:

- 195
- 352
- 175
- 351
- 196
- 176

—

X

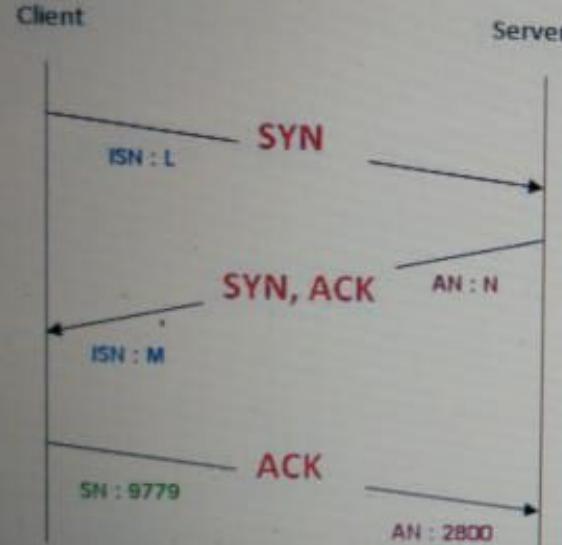
18

answered
out of

question

Computer Network Technology

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

≡ Quiz navigation

DISCLAIMER



MULTIPLE CHOICE QUESTIONS

1	2	3	4	5
8	9	10	11	12
15	16	17	18	19
22	23	24	25	26
29	30	31	32	33
36	37	38	39	40

STRUCTURED QUESTIONS

41	42	43
----	----	----

FEEDBACK

44

**Question 11**

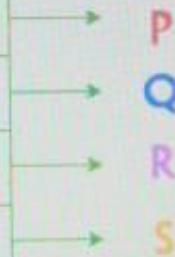
Not yet answered

Marked out of
1.00

Flag question

The following table indicates the values of the M bit and the Fragmentation Offset field of the IP header.

MF	Fragment Offset
1	0
1	$\neq 0$
0	$\neq 0$
0	0



From the above four types of packets (denoted as P,Q,R and S), which packet can be the sample values of an intermediate fragment?

Select one:

- Q
- R
- S
- P



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R19013138

Question 19

Not yet answered

Marked out of
1.00

Flag question

Where does the running configuration file of the router be stored?

Select one:

- ROM
- ROM or RAM
- Flash Memory
- NVRAM
- RAM

[Next page](#)

≡ Quiz n

DISCLAIMER



MULTIPLE C

1 2

8 9

15 16

22 23

29 30

36 37

STRUCTURED

41 42

43



Sri Lanka Institute of Information Technology

Which of the following memory locations describes the possible locations from which the operating system would be loaded at system initialization?

Select one:

- RAM, ROM
- Flash Memory, ROM
- NVRAM, RAM
- NVRAM, ROM

W



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Question 12

Not yet answered

Marked out of
1.00

Flag question

Identify the purpose of ICMP?

Select one or more:

- Collision detection
- Send control messages
- Send error messages
- Transporting routing updates
- Avoiding routing loops.

1 5



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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Question 13

Not yet answered

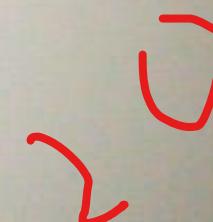
Marked out of
1.00

Flag question

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

Select one or more:

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





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Question 24

Not yet answered

Marked out of
1.00

 Flag question

MAC of PC_A is d600:0ABB:28FC

The interface ID of the IPv6 address generated by EUI64 method is

I

Next page

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



4800 0190 002A 0000 0906 0000 5A3C 0209 440C 0E07

Find the size of the IP header? (In Bytes)

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												

Select one:

- 24
- 31
- 44
- 11
- 20



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Question 30

Not yet answered

Marked out of
1.00

Flag 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 address table. What is the default action of the switch?

Select one:

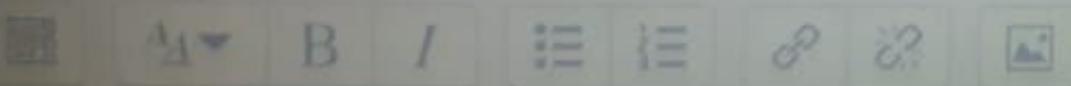
- The switch will send an ARP Request for the MAC address of the destination
- The frame is filtered
- The switch will forward the frame out every port, except the one it came in on
- The frame is sent out any port that the switch has no MAC table entry for

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Next page



- a) Compare and contrast TCP and UDP protocols. (4 Marks)
- b) Briefly explain the Dynamic port numbers including the number range. (3 Marks)
- c) Explain how a client TCP process goes through different states when establishing a connection with a CLOSED state. (5 Marks)
- d) Briefly explain 'Round Trip Time' and 'Re-transmission Timer.' (4 Marks)
- e) Briefly explain the three situations in which the Reset control field in the TCP header ("Reset" control field) is used. (4 Marks)





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Question 32

Not yet answered

Marked out of

0.0

* Flag question

The Administrator needs to prevent unauthorized users from plugging their laptops into the router. What type of password will help prevent this issue?

Select one:

- Telnet
- Console
- Secret
- Line
- Enable

✓





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Question 34

Not yet answered

Marked out of

.00

Flag question

A device has the IP address of 192.168.20.166/26.

What is the last usable IP address of the network of the above device?

Select one:

- 192.168.20.158
- 192.168.20.190 
- 192.168.20.254
- 192.168.20.159
- 192.168.20.255
- 192.168.20.191



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Question 35

Not yet answered

Marked out of
1.00

Flag question

fe00:A000:0000:0001:0000:0000:0000:0092

The abbreviated version of the above IPv6 address is :

x

odle

X C | i | A



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36

answered

out of

question

A Company has the 210.106.14.0 /24 network. How many usable subnetworks and usable host addresses this would provide?

Select one:

- 6 networks with 30 hosts
- 1 network with 254 hosts
- 2 networks with 128 hosts
- 4 networks with 64 hosts

