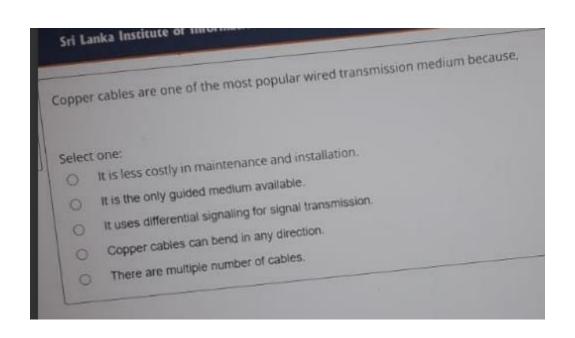
### **Networking**

Selec	t the most suitable statement.
Selec	ct one:
0	Converged networks are LANs.
0	None of the given statements are true.
0	Converged networks carry data, voice, video & images over the same network.
0	Converged networks are private networks.
0	Converged networks carry social networking data.



	are the correct statements about "MAC address table"? (select two)
Selec	t one or more:
0	MAC address table is used by routers
0	MAC address table is created for each computer
0	MAC address table is used by switches
0	MAC address table is a collection of MAC addresses with the respective connected ports
0	None of the given answers are true

Nhat i	s a main difference between a Switch and a Bridge?
Select	t one:
0	Switch is large and a bridge is small.
0	A bridge is used to connect LANs whereas a switch is used to create a LAN
0	Bridge is used to segment a LAN while Switch is used to interconnect different LANS.
0	There is no difference.
0	Bridge is a dumb device while switch is an intelligent device.

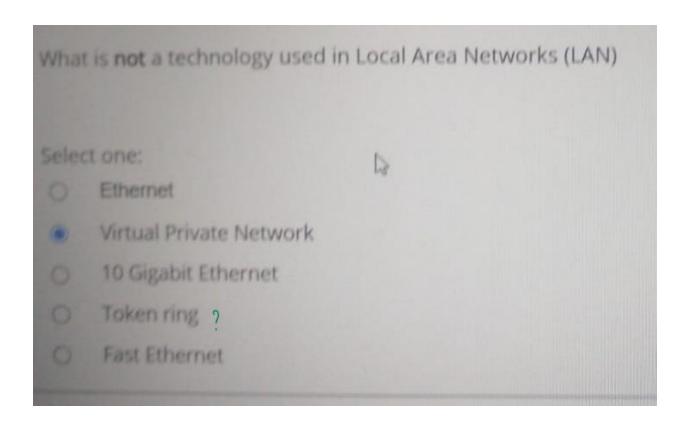
Selec	t the correct statements about network characteristics. (Select two)
Selec	et one or more:
0	The data rate is measured by bits per second of a given link in the network.
0	Reliability indicates the non-dependability of the components that make up the network.
0	Scalability indicates how many nodes are currently on the network.
0	The logical topology is the arrangement of cables, network devices, and end systems.
	Availability is a measure of the probability that the network will be available for use when it is req

Device	es on one netwo	rk can comm	iunicate w	ith devices or	n another net	work via, (9	Select two)
Selec	t one or more:						
0	Gateway						
0	Multiplexer						
0	Hub						
0	Router						
0	Printer		D				

Which of the following statements are true? (select two).					
Selec	ct one or more:				
	Point-to-Point connection provides a dedicated link between the two devices.				
0	Point to point connection is always build using a wireless media.				
0	Multi-point connection is always build using a wireless media.				
0	Point to point connection is always build using a copper cable.				
	A multipoint connection is a connection established between more than two devices.				

### Select one: The internet is defined as a global mesh of interconnected networks. The protocols related to the Internet is defined by IETF and IRTF The internet architecture standards are defined by Internet Architecture Board. The internet is owned by Internet Society (ISOC). The internet is a public network.

Whic	th of the following is not a benefit of the layered networking	g model?
Sele	ct one:	
0	a. Provides a common language	
0	b. Assists in protocol design	
0	c. Changes in one layer do not affect other layers	
0	d. Create a competition between vendors	Da .
•	e. Allows one organization to control the protocol design	

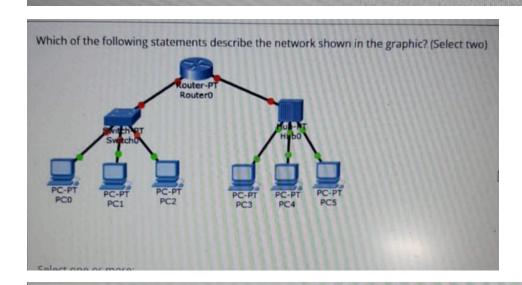


### Which of the following statement is NOT true?

### Select one:

- a. Fiber optics is an example of Unguided media
- O b. Unguided media signals are transmitted into air
- C. Unguided media are also known as as wireless communication
- O d. Unguided media transmission requires an antenna
  - e. Unguided media uses electromagnetic waves





### Select one or more:

- There are total number of six broadcast domains in the network.
- There are total number of seven collision domains in the network.
- There are total number of five collision domains in the network.
- There are total number of four broadcast domains in the network.
- There are total number of four collision domains in the network.
- There are total number of two broadcast domains in the network

	ect statements about "MAC address table"? (select two)
Select one or more	e:
□ None of the	given answers are true
☐ MAC address	s table is used by routers
☐ MAC address	s table is a collection of MAC addresses with the respective connected por
	s table is created for each computer
MAC address	s table is used by switches ethernet switch
latch the ISO-OS	I Layer to correct address type used in Network Communication
Network Layer	IP Address 🖊
Data Link Layer	Choose physical addressing
Transport Layer	Choose port address
Which characte	ristic is not addressed by a network architecture design.
Select one:	
O Quality of	Service.
Durability	
	ance.
O Fault Toler	
O Fault Toler O Security.	

Match the given address to the correct address	s type.	
FE80:CD00:0000:0CDE:1257:0000:211E:729C	Choose	IPV6
00:1B:44:11:3A:B7	Choose	MAC address
203.147.23.20	Choose	IPV4

### Select the correct statement.

### Select one:

- None of the given answers are true.
- A private network is not directly connected to Internet.
- In a private network, it is mandatory to follow Internet standards.
- If a network is directly connected to Internet, it will become a part of Internet.
- A private network is a set of interconnected Intranets.

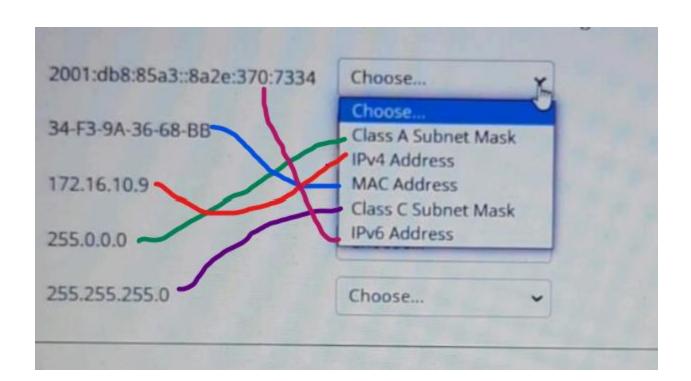
### Which of the following statement is true?

### Select one:

- a. Both IP and MAC addresses are virtual addresses
- O b. IP Address is a physical Address and MAC Address is a logical Address

Do

- O c. IP Address is a physical Address
- d. MAC Address is logical address
- e. IP Address is a logical Address and MAC Address is a physical Address



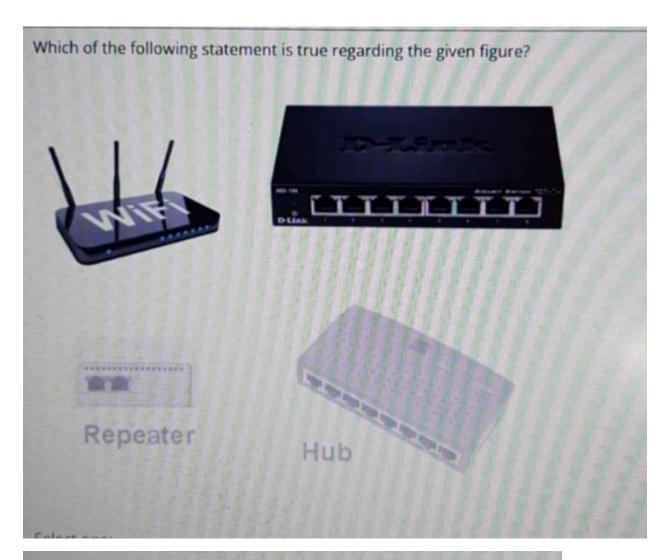
Select the correct statement about hubs.

### Select one:

- Hub always unicast messages.
- Hub always broadcast messages.
- Hub functions are similar to switch. bridge & switch similar
- O None of the given statements are true.
- O Hub maintains a MAC table for data forwarding switch

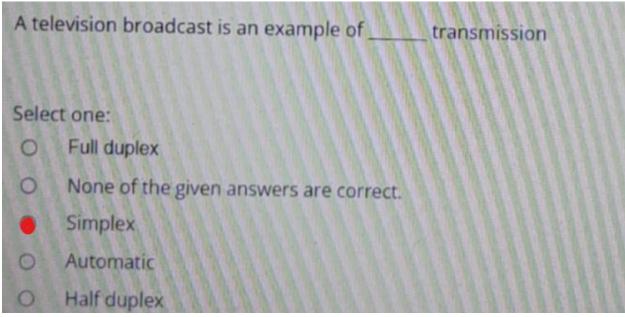
### Network hub

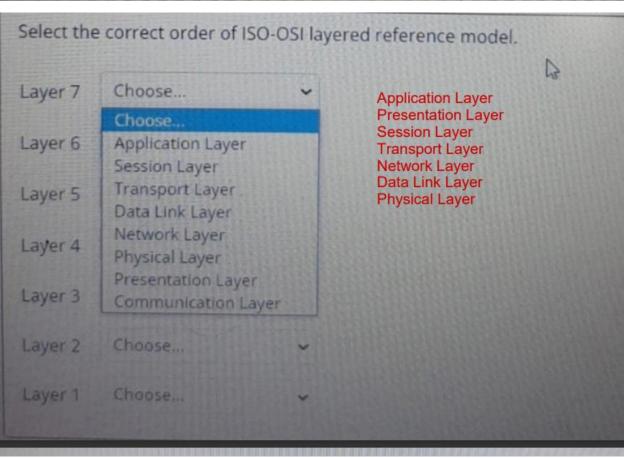
Each computer or device connected to the hub can communicate with any other device connected to one of the hub's Ethernet ports: Hubs are similar to switches, but are not as "smart." While switches send incoming data to a specific port, hubs broadcast all incoming data to all active ports.



### Select one:

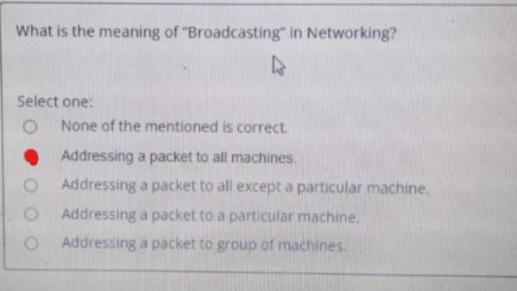
- O a. These devices are used to build a PAN
- O b. These devices are used to connect multiple networks
- c. These devices are used to build a LAN
- O d. These devices cannot be used to create a network





Se	elect the correct elements/components that make up a network.
Selec	Device, Medium, Message, Rules.  Device, Medium, Message, Protocols.  Device, Wire, Message, Rules.  Service, Medium, Packet, Protocols.  Service, Medium, Packet, Rules.
Whic	th of the following are not networking devices? (Select two)
Sele	ct one or more:
0	Router
8	
1225	Linux
	Linux Gateway
0.	
0.0	Gateway

## What does a Protocol define? Select one: O Protocol defines what data is communicated. O Protocol defines when data is communicated. O Protocol defines why data is communicated. Protocol defines how data is communicated. O None of the mentioned is true.



# What is **not** an advantage of a computer network? Gelect one: Social Engineering Remote Information Access User Communication Resource Sharing Interaction among cooperative application programs

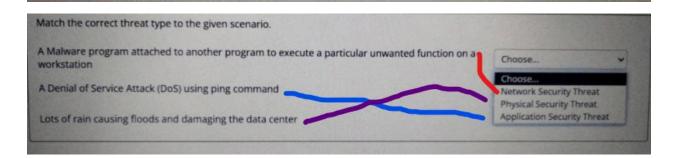
```
Connection-specific DNS Suffix :

IPV6 Address. : 2402:4000:2182:5b3f:50
IPv6 Address. : 2402:4000:2182:5b3f:74
IPv6 Address. : 2402:4000:2182:5b3f:74
IPv6 Address. : 2402:4000:2182:5b3f:74
IPv6 Address. : 2402:4000:2182:5b3f:74
IPv6 Address : 2402:4000:2182:5b3f:74
Link-local IPv6 Address : 2402:4000:2182:5b3f:a46
IPv4 Address : fe80::5095:effe:e4bc:5f
Subnet Mask : 192.168.8.106
Default Gateway : fe80::76a5:28ff:fe27:c16
IPv. 168.8.255
```

### What is the correct statement about a Collision Domain?

### Select one:

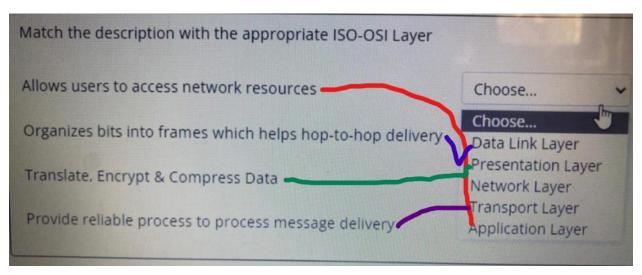
- A collection of two or more computers in which, if more than one sender tries to send data simultaneously, the signals will collide in the transmission media and make all the sent information unusable.
- O In a router, all ports are in a single collision domain
- A collection of two or more computers in which, if one sender tries to send data, the signal will collide in the transmission media and make the sent information unusable.
- A collection of two or more computers in which, one computer tries to send data after another computer, the signals will collide in the transmission media and make all the sent information unusable.
- None of the mentioned is true.

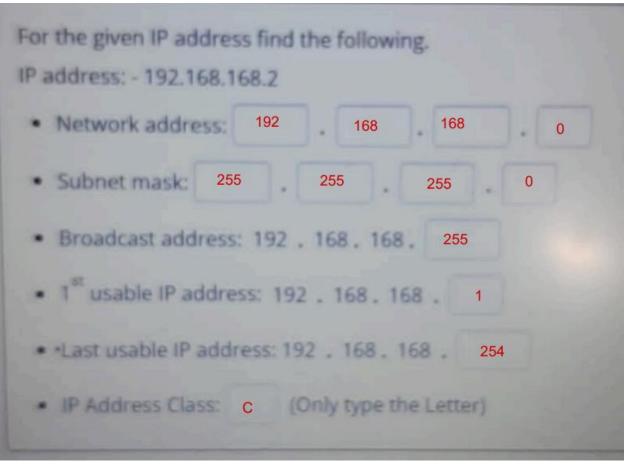


### What is a main difference between a Switch and a Bridge?

### Select one:

- O Bridge is a dumb device while switch is an intelligent device.
- O There is no difference.
- O Bridge is used to segment a LAN while Switch is used to interconnect different LANs.
- A bridge is used to connect LANs whereas a switch is used to create a LAN
- O Switch is large and a bridge is small.

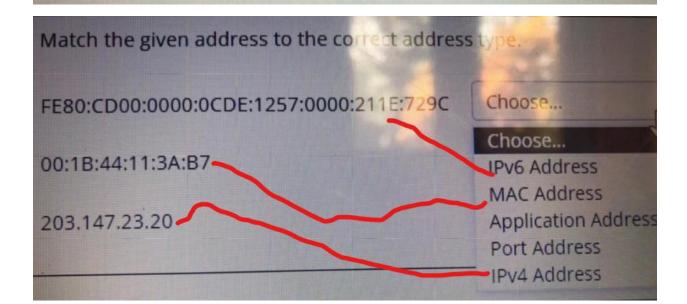


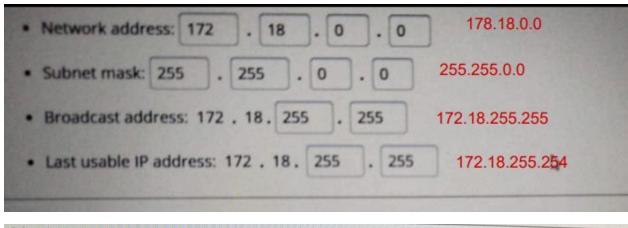


```
John typed 'ipconfig' command while being connected to his home WiFi and obtained the following result. How
many IPv4 computers(devices) can be connected to John's home network?
    Connection-specific DNS Suffix .:
    1Pv6 Address. . . . . . . . . : 2402:4000:2080:76c8:74a5:2827:c1c0:4
    IPv6 Address. . . . . . . . . . . . . . . . 2402:4000:2182:5b3f:5095:effe:e4bc:5f6
    1Pv6 Address. . . . . . . . . . . . . . . . . 2402:4000:2182:5b3f:74a5:2827:c1c0:4
    Temporary IPv6 Address. . . . . : 2402:4000:2182:5b3f:a4e4:9e4c:8590:cb0
    link-local IPv6 Address .
                                . . . : fe80::5095:effe:e4bc:5f63%4
    IPv4 Address. .
                                . . . . : 192.168.8.106
    Subnet Mask .
                              . . . . . : 255.255.255.0
    Default Gateway .
                                        : fe80::76a5:28ff:fe27:c1c0%4
                                           192.168.8.1
Answer:
         2^8 - 2 = 254
```

John typed 'ipconfig' command while being connected to his home WiFi and obtained the following result. How many IPv4 computers(devices) can be connected to John's home network?

Answer: 2^16 - 2 = 65534





Select the incorrect statement.

Select one:

A WAN spans across a large geographical area. It is a geographically-dispersed collection of LANs.

Internet is the largest WAN spanning the entire globe.

A network spanning over a geographical area larger than a LAN, but smaller than a WAN, such as a city, is called a MAN.

Switches are used to connect LANs to a WAN.

A LAN connects network devices over a relatively small geographical area.

Which of the following statement is incorrect regarding the 'Internet'?

Select one:

a. Internet is the largest WAN topology

b. Internet protocols are managed by IETF

c. Internet is a collection of interconnected networks

d. Internet is governed by International Standardization Organization (ISO)

Transport Layer	Choose ~	
Network Layer	Choose	
network Edyer	Web Address	
Data Link Layer	MAC Address	
	Port Address	
	IP Address	
	Registry Address	
		u n
P address: - 172.16.1.	ask of the following IP address? 2.4 dotted decimal format (e.g. 192.168.10.1)	