



# 400-201<sup>Q&As</sup>

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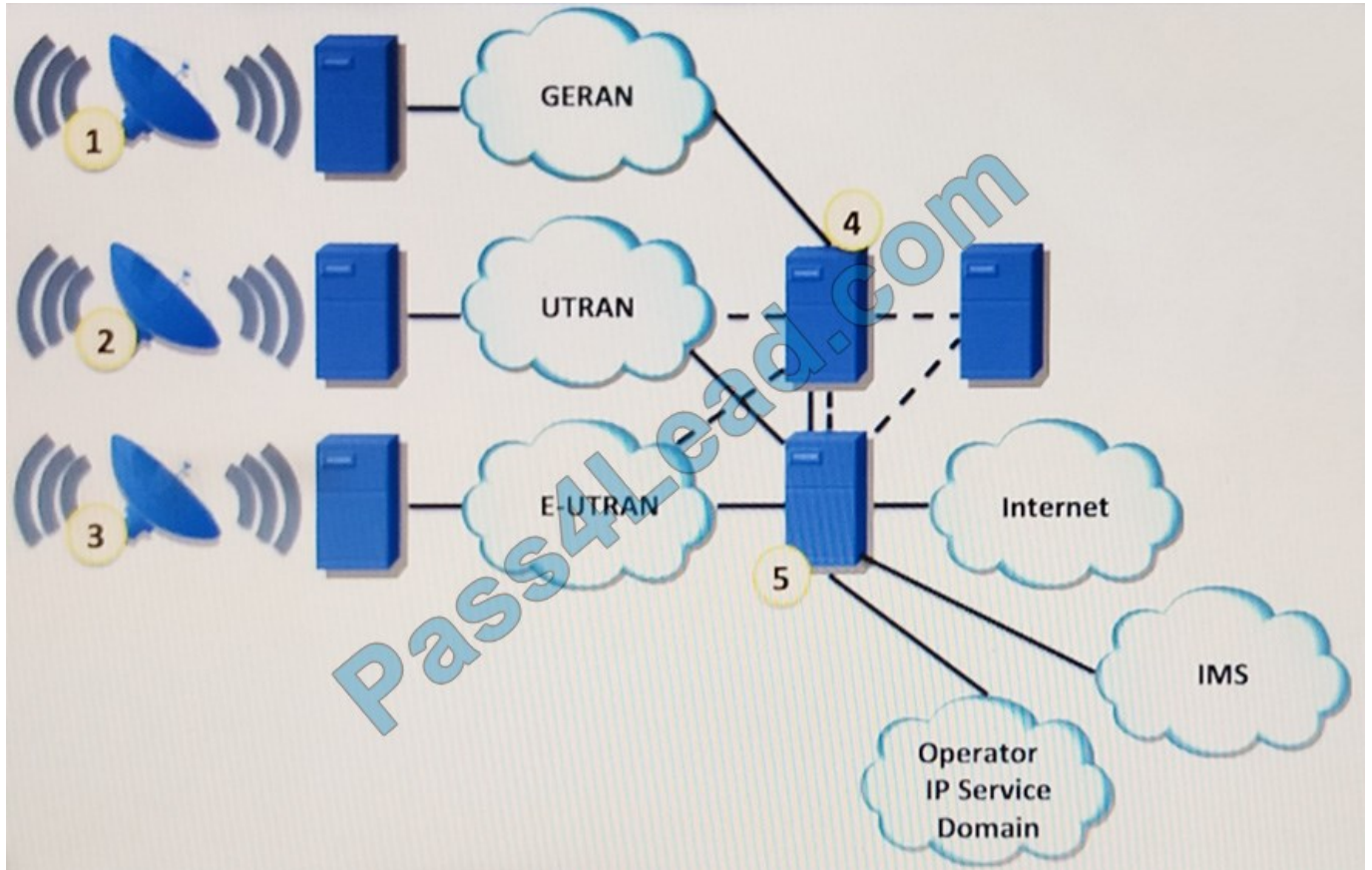
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### QUESTION 1

DRAG DROP Refer to the exhibit.



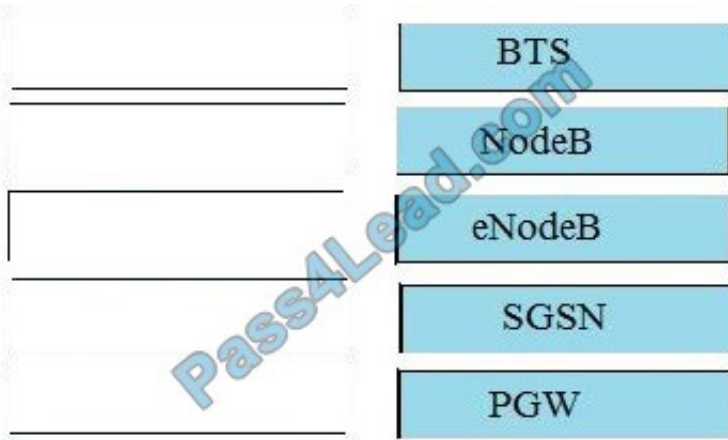
When integrating 2G or 3G and 4G functions in one node as this scenario shows, drag and drop the functional element on the left onto the correct numbered item from the exhibit on the right.

Select and Place:

PGW	1
BTS	2
NodeB	3
eNodeB	4
SGSN	5



Correct Answer:



Reference: [https://www.cisco.com/c/dam/en/us/solutions/service-provider/mobile-internet/whitepaper\\_c11-577763\\_v1.pdf](https://www.cisco.com/c/dam/en/us/solutions/service-provider/mobile-internet/whitepaper_c11-577763_v1.pdf)

## QUESTION 2

Which two things are correct about QinQ technology? (Choose two.)

- A. The Outer.1Q tag represents customer VLAN ID and inner.1Q tag represents Service Provider VLAN (PVLAN)
- B. It is an effective way to achieve VLAN transparency between Provider and enterprise customer by tunneling one set of VLAN tags inside a second VLAN tag
- C. The Outer.1Q tag represents Service Provider VLAN (PVLAN) and inner.1Q tag represents customer VLAN
- D. QinQ is a way to hide native VLAN which can conflict with Provider native VLAN

Correct Answer: BC

IEEE 802.1ad[note 1] is an Ethernet networking standard informally known as IEEE 802.1QinQ[by whom?] and is an amendment to IEEE standard IEEE 802.1Q-1998. The technique is also known as provider bridging, Stacked VLANs, or simply QinQ or Q-in-Q. "Q-in-Q" can for supported devices apply to C-tag stacking on Ctag (Ethernet Type =

0x8100) but this has limited application in the modern methodology of network routing.

The original 802.1Q specification allows a single Virtual Local Area Network (VLAN) header to be inserted into an Ethernet frame. QinQ allows multiple VLAN headers to be inserted into a single frame, an essential capability for implementing Metro Ethernet network topologies. Just as QinQ extends 802.1Q, QinQ itself is extended by other Metro

Ethernet protocols.[specify]

In a multiple VLAN header context, out of convenience the term "VLAN tag" or just "tag" for short is often used in place of "802.1Q VLAN header". QinQ allows multiple VLAN tags in an Ethernet frame; together these tags constitute a tag stack. When used in the context of an Ethernet frame, a QinQ frame is a frame that has 2 VLAN 802.1Q headers

(double- tagged).



There is a mild confusion regarding the naming because the 802.1ad standard was grown out of the 802.1QinQ[citation needed] protocol (which was developed based the trademarked method 802.1Q, with capital "Q" as a distinction instead of the 802.1q as the standardised protocol) which originally used 0x8100 as ethernet type instead of 0x88a8.

While the network industry usually mix the naming, the proper, standardized name is 802.1ad which sometimes gets appended by the other alternative names mentioned above; the plain "802.1QinQ"[citation needed] name usually refers to the old standard which is now[when?] considered obsolete.

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### QUESTION 3

Which statement about standard STS-1 SONET framing is true?

- A. 8 rows by 64 bytes
- B. 6 rows by 64 bytes
- C. 10 rows by 96 bytes
- D. 8 rows by 128 bytes
- E. 9 rows by 90 bytes

Correct Answer: E

Explanation: In the case of an STS-1, the frame is 810 octets in size, while the STM- 1/STS-3c frame is 2,430 octets in size.

For STS-1, the frame is transmitted as three octets of overhead, followed by 87 octets of payload. This is repeated nine times, until 810 octets have been transmitted, taking 125 s. In the case of an STS-3c/STM-1, which operates three times faster than an STS-1, nine octets of overhead are transmitted, followed by 261 octets of payload. This is also

repeated nine times until 2,430 octets have been transmitted, also taking 125 s.

For both SONET and SDH, this is often represented by displaying the frame graphically: as a block of 90 columns and nine rows for STS-1, and 270 columns and nine rows for STM1/STS-3c. This representation aligns all the overhead columns, so the overhead appears as a contiguous block, as does the payload.

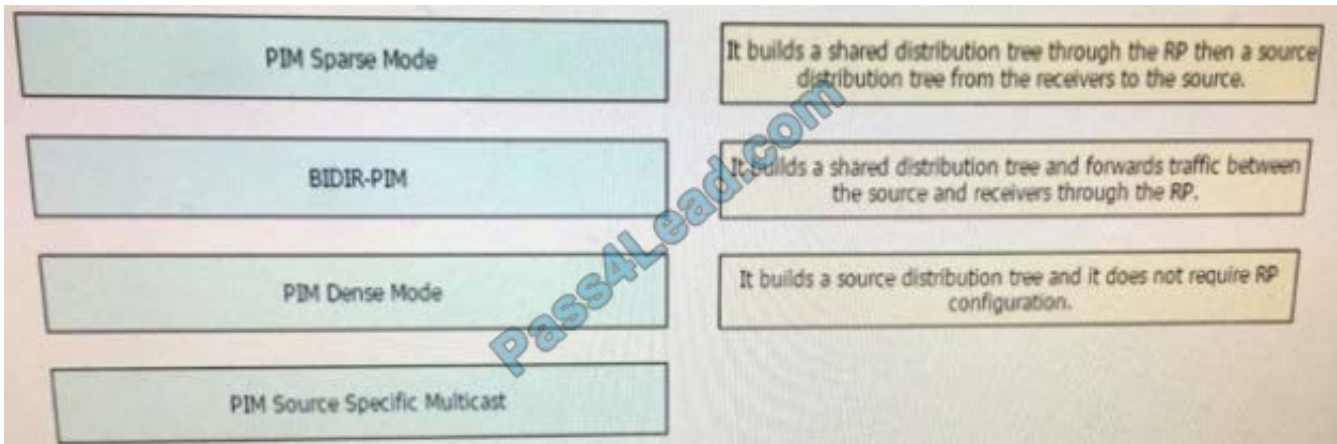
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### QUESTION 4

Drag and drop PIM mode from the left onto the corresponding characteristic on the right. Not all options are used

Select and Place:





Correct Answer:



**QUESTION 5**

What are the default values for GRE tunnel keepalive time and number of retries?

- A. 5 seconds and 3 retries



- B. 10 seconds and 5 retries
- C. 10 seconds and 3 retries
- D. 20 seconds and 5 retries
- E. 5 seconds and 5 retries

Correct Answer: C

This output shows the commands you use in order to configure keepalives on GRE tunnels. Router# configure terminal  
Router(config)#interface tunnel0 Router(config-if)#keepalive 5 4 !--- The syntax of this command is keepalive [seconds  
[retries]]. !--- Keepalives are sent every 5 seconds and 4 retries. !--- Keepalives must be missed before the tunnel is shut  
down. !--- The default values are 10 seconds for the interval and 3 retries.

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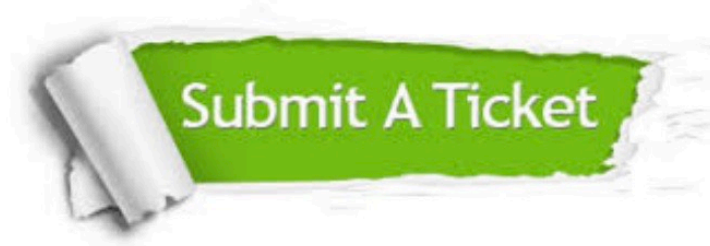
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