



300-101^{Q&As}

Implementing Cisco IP Routing

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QUESTION 1

Which two commands must be used to troubleshoot high memory usage for a process?

- A. router#show memory allocating-process table
- B. router#show memory processor statistics
- C. router#show memory events
- D. router#show memory summary
- E. routertfshow memory dead

Correct Answer: AD

QUESTION 2

DRAG DROP

Select and Place:

Header field name	Function
Area ID	Identifies the source of the packet.
Checksum	Identifies the area to which the packer belongs.
Router ID	Contains the authentication type. All OSPF protocol exchanges are authenticated.
Data	Checks contents of the entire packet for any damage suffered during transmission.
Authentication	Contains authentication information.
Authentication type	Contains encapsulated upper-layer information.

Correct Answer:



Header field name	Function
	Router ID
	Area ID
	Authentication type
	Checksum
	Authentication
	Data

QUESTION 3

which two statements about ip access lists are true?(choose two)

- A. They support wildcard masks to limit the address bits to which entries are applied
- B. Extended access lists must include port numbers
- C. IP access list without at least one deny statement permit all traffic by default
- D. They end with an implicit permit
- E. Entries are applied to traffic in the order in which they appear

Correct Answer: AE

QUESTION 4

Which statement about conditional debugging is true?

- A. It can support only one condition at a time
- B. You can limit the output to a specific interface



- C. It generates debug messages only for packets entering the router
- D. It is limited to Ethernet, serial, and multilink interfaces

Correct Answer: B

QUESTION 5

A network engineer executes the command `show ip eigrp vrf purple topology`. Which type of information is displayed as a result?

- A. routes for a global routing table
- B. updates that were sent for a specific routing table
- C. active neighbors for a global routing table
- D. route successors for a specific routing table

Correct Answer: D

QUESTION 6

Which statement is true about 6to4 tunneling?

- A. IPv4 traffic is encapsulated with an IPv6 header
- B. the edge router can use locally configured IPv6 address
- C. host and routers inside a 6to4 site will need a special code
- D. an edge router must use IPv6 address of 2002::/16 in its prefix

Correct Answer: D

6to4 tunnel is a technique which relies on reserved address space 2002::/16 (you must remember this range).

These tunnels determine the appropriate destination address by combining the IPv6 prefix with the globally unique destination 6to4 border router's IPv4 address, beginning with the 2002::/16 prefix, in this format:

```
2002:border-router-IPv4-address::/48
```

Because the border-router-IPv4-address is added, we will have a /48 prefix (we all know an IPv4 address consists of 32 bits). An example of a 6to4 address with the border-router-IPv4-address of 192.168.1.2 is 2002:C0A8:01:02::/48.

QUESTION 7

You want the devices on your network to summarize routes between OSPF areas. Which action must you take?

- A. Configure the `area range` command on the ABR.



- B. Configure the summary-address command on the ABR.
- C. Configure the area range command on the ASBR.
- D. Configure the summary-address command on the ASBR.

Correct Answer: D

QUESTION 8

Which two statements about PPPoE packet types are true? (Choose Two)

- A. A PADI (PPPoE Active Discovery Initiation) broadcast signal is sent by the host to the remote devices
- B. A PADR (PPPoE Active Discovery Request) unicast signal is sent to confirm the remote device.
- C. A PADR (PPPoE Active Discovery Request) broadcast signal is sent by the host to the remote device.
- D. A PADO (PPPoE Active Discovery Offer) signal is sent by the remote device back to the host.
- E. A PADT (PPPoE Active Discovery Terminate) signal

Correct Answer: AD

QUESTION 9

A network engineer wants to configure logging to compile and send information to an external server. Which type of logging must be configured?

- A. console
- B. syslog
- C. buffer
- D. terminal

Correct Answer: B

QUESTION 10

Which two statements about VRF-Lite configurations are true? (Choose two.)

- A. They support the exchange of MPLS labels.
- B. Different customers can have overlapping IP addresses on different VPNs
- C. They support a maximum of 512,000 routes
- D. Each customer has its own dedicated TCAM resources.



- E. Each customer has its own private routing table.
- F. They support IS-IS

Correct Answer: BE

QUESTION 11

Which condition must be met before two EVN devices can connect ?

- A. One VLAN interface must be configured between devices
- B. An EtherChannel configured with at least two interfaces connected between the devices.
- C. A trunk interface must be configured between devices
- D. A fiber connection must be established between the devices.

Correct Answer: C

QUESTION 12

DRAG DROP

Click and drag the command on the left to the associated task on the right.

Select and Place:

show ip eigrp neighbor	confirm what EIGRP is learning
show ip eigrp interface	confirm what is actually being used
show ip eigrp topology	view route information sources
show ip route eigrp	verify the routing of specific networks

Correct Answer:



	show ip eigrp topology
	show ip route eigrp
	show ip eigrp neighbor
	show ip eigrp interface

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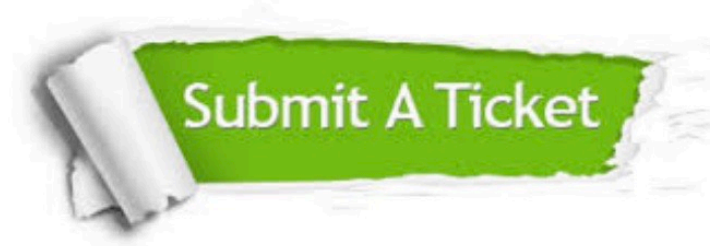
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