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# 642-053

**Cisco**

*Routing and Switching SE/FE*

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**Question: 1**

You have decided to change the IP address of the inside network on a Cisco 800 broadband routing using CRWS to 192.168.5.0/24 with an IP address on the router's inside interface of 192.168.5.1/24. You have made no manual changes to the configuration. What will the IP addressing look like on the router on the inside interface?

- A. There will be one address on the inside interface of 192.168.5.1
- B. There will be a 10.x.x.x address on the inside interface as a primary and 192.168.5.1 will be secondary.
- C. There will be a 192.168.5.1 address on the inside interface as a primary and a 10.x,x, address as secondary.
- D. There will be a 10.x.x.x address on the main inside interface and a sub-interface will have been created with the 192.168.5.1 address installed on it.

**Answer: B**

**Question: 2**

Which process plays a major role the creation of the CEF adjacency table?

- A. Address Resolution Protocol RRP
- B. PDU header rewrite
- C. NetFlowswitching
- D. Hello packet exchange

**Answer: A**

**Question: 3 DRAG DROP**

Match the MultilayerSwitchingterm to the correct definition.

Select from these	Definition	Place here
MLS SE	Cisco device with a route processor that supports MLS	Place here
MLS Flow	Sequence of packets that share Layer 3 and Layer 4 information	Place here
MLSP	Protocol used to communicate MLS information	Place here
MLS RP	Maintains a Layer 3 switching table (Layer 3 MLS cache)	Place here

**Answer:**

Select from these	Definition	Place here
	Cisco device with a route processor that supports MLS	MLS RP
	Sequence of packets that share Layer 3 and Layer 4 information	MLS Flow
	Protocol used to communicate MLS information	MLSP
	Maintains a Layer 3 switching table (Layer 3 MLS cache)	MLS SE

**Question: 4**

Which statement about multilayer switching is true?

- A. All Layer 3 routing logic is executed in ASIC on the switch.
- B. The MLS switch software is enhanced to take over all functions of the router.
- C. The switch caches the ARP table, routing table, and access lists with frequent updates from the router.
- D. The MLS switch compares incoming packets with cached Layer 3 information and forwards it to the appropriate port.

**Answer: D**

**Question: 5**

What is the default aging time for MLS cache entries for which a flow is established?

- A. 3 seconds
- B. 64 seconds
- C. 128 seconds
- D. 256 seconds
- E. 300 seconds

**Answer: D**

**Question: 6**

What is the purpose of multilayer switching XTAGs?

- A. To associate an access list to a connection.
- B. To assign a switch port to an incoming packet.
- C. To distinguish different flows from a single source.
- D. To distinguish the MAC addresses of multiple MLS-RPs.

**Answer: D**

**Question: 7**

Which multilayer switching concept determines how entries are created in the MLS cache?

- A. HSRP
- B. XTAGs
- C. Trunking
- D. Flow masks
- E. Tag switching

**Answer: D**

**Question: 8**

The multilayer switching process is based on which concept?

- A. Switch once, route many
- B. Route once, switch many
- C. Route when you can, switch when you must
- D. Separate the functions of routing and switching

**Answer: B**

**Question: 9**

Which three are contained in MLS-RP advertisements? (Choose three)

- A. Topology changes
- B. ARP cache changes
- C. Access list information
- D. Route additions and deletions
- E. The MAC addresses used by the MLS-RP interfaces

**Answer: C, D, E**

**Question: 10**

When does the MLS-SE create a candidate MLS cache entry? (Choose two)

- A. When it receives a TCP SYN packet.
- B. When an MSL cache entry did not exist for the flow.
- C. When the frame was destined for the MLS-RP MAC address.
- D. After it forwards a pre-determined number of frames for the same flow.
- E. When it receives an MLSP message from the MLS-RP to create a candidate entry.

**Answer: B, C**

**Question: 11**

Which Native IOS feature supports a forwarding approach that eliminates the supervisor from touching a frame for forwarding decisions?

- A. FIB
- B. MLS
- C. CEF
- D. DCEF

**Answer: C**

**Question: 12**

Using switch clustering, how many ports can users manage from a single IP address?

- A. 240
- B. 380
- C. 500
- D. 680
- E. 800

**Answer: B**

**Explanation:**

With Cisco Switch Clustering, users can manage over 380 ports from a single IP address, and connect up to 16 switches, regardless of physical location, with a broad range of Ethernet, Fast Ethernet, and Gigabit Ethernet media

**Reference:**

<http://www.cisco.com/en/US/products/hw/switches/ps637/index.html>

**Question: 13**

Which statement describes the term "multilayer switching"?

- A. Switches that operate at the access, distribution, and core layer of the design model
- B. An OSI Layer 1 and 2 bridging technique
- C. A technique to provide hardware switching of Layer 3 unicast packets
- D. A flow-based Layer 3 packet routing methodology

**Answer: C**

**Question: 14.**

Which command configures a default gateway on a Catalyst 3500XL switch?

- A. Switch(config) ip route ip address
- B. Switch(config) set ip route address
- C. Switch(config) ip route-default-gateway ip address
- D. Switch(enable) set default-gateway ip address

**Answer: D**

**Question: 15**

4 Which method of layer 3 switching uses a forwarding information base?(FIB) A. Route caching B. Flow-based switching C. Demand-based switching D. Topology-based switching

**Answer:**

D Note: CEF is a topology-based forwarding model in which all routing information is prepopulated into a forwarding information base (FIB). As a result of the prepopulation of routing information, Catalyst switches can quickly look up routing information such as IP adjacencies and next-hop IP and MAC addresses.

**Question: 16**

What does a half-open TCP session on the Cisco IOS Firewall mean?

- A. Session was denied D.
- B. Firewall detected return traffic C.
- C. Session has not reached the established state E.
- D. Three-way handshake has been complete D.

**Answer: C**

**Question: 17**

What does CBAC on the Cisco IOS Firewall do with the application-layer protocol session information it gets from TCP and UDP packets?

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