



200-101^{Q&As}

Interconnecting Cisco Networking Devices Part 2 (ICND2)

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QUESTION 1



Instructions:

- Enter IOS commands on the Dubai router to verify network operation and answer for multiple-choice questions. **THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.**
- Click on the Console PC to gain access to the console of the router. No console or enable passwords are required.
- To access the multiple-choice questions, click on the numbered boxes on the left of the top panel.

Topology

The diagram shows a central 'Dubai' router connected to three 'Branch Offices' (North, SouthIslands, NorthCoast) via interfaces S1/1, S1/2, and S1/3. The Dubai router is also connected to a 'Multinational Core' via interface S1/0. The core consists of four stacked routers representing regions: USA-CAN (labeled .2), S-AMER (labeled .3), AUS-PAC (labeled .4), and S-ASIA (labeled .5). A console PC is connected to the Dubai router.

```
Dubai

%LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to administratively down
%LINK-3-UPDOWN: Interface Serial1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0, changed state to up
%LINK-3-UPDOWN: Interface Serial1/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/1, changed state to up
%LINK-3-UPDOWN: Interface Serial1/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/2, changed state to up
%LINK-3-UPDOWN: Interface Serial1/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/3, changed state to up
Press RETURN to get started!
Dubai>
```





```
Dubai#sh frame-relay map
Serial1/0 (up): ip 172.30.0.2 dlci 825 (0x7B,0x1CB0), dynamic,
                broadcast,, status defined, active
Serial1/0 (up): ip 172.30.0.3 dlci 230 (0xEA,0x38A0), dynamic,
                broadcast,, status defined, active
Serial1/0 (up): ip 172.30.0.4 dlci 694 (0x159,0x5490), dynamic,
                broadcast,, status defined, active
Serial1/0 (up): ip 172.30.0.5 dlci 387 (0x1C8,0x7080), dynamic,
                broadcast,, status defined, active
Dubai#
interface FastEthernet0/0
  no ip address
  shutdown
!
interface Serial1/0
  ip address 172.30.0.1 255.255.255.240
  encapsulation frame-relay
  no fair-queue
!
interface Serial1/1
  ip address 192.168.0.1 255.255.255.252
!
interface Serial1/2
  ip address 192.168.0.5 255.255.255.252
  encapsulation ppp
!
interface Serial1/3
  ip address 192.168.0.9 255.255.255.252
  encapsulation ppp
  ppp authentication chap
!
router rip
  version 2
  network 172.30.0.0
  network 192.168.0.0
  no auto-summary
!
line con 0
  exec-timeout 0 0
line aux 0
line vty 0 4
  password Tlnet
  login
!
end
```



What would be the destination Layer 2 address in the frame header for a frame that is being forwarded by Dubai to the host address of 172.30.4.4?

- A. 825
- B. 230
- C. 694
- D. 387

Correct Answer: C



According to command output 172.30.4.4 is using the 694 dli value.
http://www.cisco.com/en/US/docs/ios/12_2/wan/command/reference/wrffr4.html#wp1029343

QUESTION 2

Which statement is true, as relates to classful or classless routing?

- A. Classful routing protocols send the subnet mask in routing updates.
- B. RIPv1 and OSPF are classless routing protocols.
- C. Automatic summarization at classful boundaries can cause problems on discontinuous subnets.
- D. EIGRP and OSPF are classful routing protocols and summarize routes by default.

Correct Answer: C

<http://www.ciscopress.com/articles/article.asp?p=174107andseqNum=3> RIPv1, RIPv2, IGRP, and EIGRP all auto-summarize classful boundaries by default (OSPF does not). To make discontinuous networks work, meaning you don't want classful boundaries to summarize, you need to turn off auto-summary.

QUESTION 3

Select and Place:

Drag each description on the left to the appropriate term on the right. Not all the descriptions are used.

prevents invalid updates from looping the internetwork indefinitely	holddown timer
causes a routing protocol to advertise an infinite metric for a failed route	split horizon
prevents a router from improperly reinstating a route from a regular routing update	defining a maximum
prevents information about a route from being sent in the direction from which the route was learned	route poisoning
prevents, via the use of logical subdivisions, routing updates from propagating the internetwork	triggered update
decreases convergence time by immediately sending route information in response to a topology change	

Correct Answer:



Drag each description on the left to the appropriate term on the right. Not all the descriptions are used.

	prevents a router from improperly reinstating a route from a regular routing update
	prevents information about a route from being sent in the direction from which the route was learned
	prevents invalid updates from looping the internetwork indefinitely
	causes a routing protocol to advertise an infinite metric for a failed route
prevents, via the use of logical subdivisions, routing updates from propagating the internetwork	decreases convergence time by immediately sending route information in response to a topology change

Explanation/Reference:

- + holddown timer: prevents a router from improperly reinstating a route from a regular routing update
- + split horizon: prevents information about a route from being sent in the direction from which the route was learned
- + defining a maximum: prevents invalid updates from looping the internetwork indefinitely
- + route poisoning: causes a routing protocol to advertise an infinite metric for a failed route
- + triggered update: decreases convergence time by immediately sending route information in response to a topology change

QUESTION 4



Instructions

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```
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  no fair-queue
!
interface Serial1/1
  ip address 192.168.0.1 255.255.255.252
!
interface Serial1/2
  ip address 192.168.0.5 255.255.255.252
  encapsulation ppp
!
interface Serial1/3
  ip address 192.168.0.9 255.255.255.252
  encapsulation ppp
  ppp authentication chap
!
router rip
  version 2
  network 172.30.0.0
  network 192.168.0.0
  no auto-summary
!
line con 0
  exec-timeout 0 0
line aux 0
line vty 0 4
  password Tlnet
  login
!
end
```



Which connection uses the default encapsulation for serial interfaces on Cisco routers?

- A. The serial connection to the NorthCoast branch office.
- B. The serial connection to the North branch office.
- C. The serial connection to the Southlands branch office.
- D. The serial connection to the Multinational Core.

Correct Answer: B

Cisco default encapsulation is HDLC which is by default enabled on all cisco router. If we want to enable other



encapsulation protocol(PPP,X.25 etc) we need to define in interface setting. But here except s1/1 all interface defined by other encapsulation protocol so we will assume default encapsulation running on s1/1 interface and s1/1 interface connected with North

QUESTION 5

What is the advantage of using a multipoint interface instead of point-to-point subinterfaces when configuring a Frame Relay hub in a hub-and-spoke topology?

- A. It avoids split-horizon issues with distance vector routing protocols.
- B. IP addresses can be conserved if VLSM is not being used for subnetting.
- C. A multipoint interface offers greater security compared to point-to-point subinterface configurations.
- D. The multiple IP network addresses required for a multipoint interface provide greater addressing flexibility over point-to-point configurations.

Correct Answer: B

You do not have to assign a separate subnet per sub-interface .if you\\re using a Class A network (10.x.x.x/8), you blow the whole network on a few connections (if you used VLSM, you could use a better mask, limit the addresses used). if you used 10.0.0.0/8, you would not be assigning the entire /8 to a single network. You would select a subnet mask for the network and then, you would have to use that mask with all subnets of the network. So if you chose a /24 mask, that would mean that you would have to use a /24 mask for even point-to-point links.

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