

## Free Download Cisco CCNA 200-120 Practice Exams with PDF & VCE (91-100)

QUESTION 91 Refer to the exhibit. What is the meaning of the output MTU 1500 bytes?

```
Router# show interfaces ethernet 0
Ethernet0 is up, line protocol is up
Hardware is QUICC Ethernet, address is 00c0.ab73.dead (bi
MTU 1500 bytes, BW 10000 Kbit, DLY 1000 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
<output omitted>
```

A. The maximum number of bytes that can traverse this interface per second is 1500.  
B. The minimum segment size that can traverse this interface is 1500 bytes.  
C. The maximum segment size that can traverse this interface is 1500 bytes.  
D. The minimum packet size that can traverse this interface is 1500 bytes.  
E. The maximum packet size that can traverse this interface is 1500 bytes.

F. The maximum frame size that can traverse this interface is 1500 bytes. Answer: E  
Explanation: The Maximum Transmission Unit (MTU) defines the maximum Layer 3 packet (in bytes) that the layer can pass onwards.

QUESTION 92 On a corporate network, hosts on the same VLAN can communicate with each other, but they are unable to communicate with hosts on different VLANs. What is needed to allow communication between the VLANs?

A. a router with subinterfaces configured on the physical interface that is connected to the switch  
B. a router with an IP address on the physical interface connected to the switch  
C. a switch with an access link that is configured between the switches  
D. a switch with a trunk link that is configured between the switches

Answer: A  
Explanation: Different VLANs can't communicate with each other, they can communicate with the help of Layer 3 router. Hence, it is needed to connect a router to a switch, then make the sub-interface on the router to connect to the switch, establishing Trunking links to achieve communications of devices which belong to different VLANs.

When using VLANs in networks that have multiple interconnected switches, you need to use VLAN trunking between the switches. With VLAN trunking, the switches tag each frame sent between switches so that the receiving switch knows to what VLAN the frame belongs. End user devices connect to switch ports that provide simple connectivity to a single VLAN each. The attached devices are unaware of any VLAN structure. By default, only hosts that are members of the same VLAN can communicate. To change this and allow inter-VLAN communication, you need a router or a layer 3 switch. Here is the example of configuring the router for inter-vlan communication.

```
RouterA(config)#int f0/0.1
RouterA(config-subif)#encapsulation ?dot1Q IEEE 802.1Q Virtual LAN
RouterA(config-subif)#encapsulation dot1Q or isl VLAN
ID
RouterA(config-subif)# ip address x.x.x.x y.y.y.y
```

QUESTION 93 Which command displays CPU utilization?

A. show protocols  
B. show process  
C. show system  
D. show version

Answer: B  
Explanation: The "show process" (in fact, the full command is "show processes") command gives us lots of information about each process but in fact it is not easy to read. Below shows the output of this command (some next pages are omitted).

```
Router#show process
CPU utilization for five seconds: 0%/0%; one minute: 0%; five minutes: 0%
PID QTY PC Runtime (ms) Invoked uSecs Stacks TTY Process
1 Cwe 6048DB4C 0 1 0 5604/6000 0 Chunk Manager
2 Csp 604BCD68 0 15 0 2632/3000 0 Load Meter
3 M* 0 28 20 140010724/12000 0 Exec
5 Mwe 61496B84 0 1 0 23460/24000 0 EDDRI_MAIN
6 Lst 6049C5E4 88 10 8600 5632/6000 0 Check heaps
7 Cwe 604A2754 0 1 0 5592/6000 0 Pool Manager
8 Mst 603D219C 0 2 0 5580/6000 0 Timers
9 Mwe 600245DC 0 2 0 5584/6000 0 Serial Backgroun
10 Mwe 602D6BB4 0 2 0 5680/6000 0 IPC Dynamic Cach
11 Mwe 602CEF94 0 1 0 5636/6000 0 IPC Zone Manager
12 Mwe 602CECF4 0 75 0 5708/6000 0 IPC Periodic Tim
13 Mwe 602CEC3C 4 77 51 5624/6000 0 IPC Deferred Por
14 Mwe 602CEDA8 4 1 4000 5596/6000 0 IPC Seat Manager
15 Mwe 603A4900 0 2 0 5576/6000 0 AAA high-capacit
16 Mwe 60347C20 0 1 0 11604/12000 0 OIR Handler
17 Msi 60572C2C 0 4 0 5600/6000 0 Environmental mo
19 Mwe 6057B190 4 5 800 5588/6000 0 ARP Input
20 Mwe 6079D838 0 19 0 5660/6000 0 HC Counter Timer
21 Mwe 6081D4A0 0 2 0 5576/6000 0 DDR Timers
22 Dwe 60A9AE28 0 3 0 5584/6000 0
23 Mwe 613B56A0 0 2 0 5584/6000 0 ATM Idle timer
```

A more friendly way to check the CPU utilization is the command "show processes cpu history", in which the total CPU usage on the router over a period of time: one minute, one hour, and 72 hours are clearly shown:

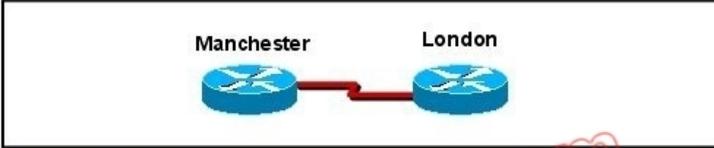


+ The Y-axis of the graph is the CPU utilization.+ The X-axis of the graph is the increment within the period displayed in the graph For example, from the last graph (last 72 hours) we learn that the highest CPU utilization within 72 hours is 37% about six hours ago. QUESTION 94What two things will a router do when running a distance vector routing protocol? (Choose two.) A. Send periodic updates regardless of topology changes.B. Send entire routing table to all routers in the routing domain.C. Use the shortest-path algorithm to the determine best path.D. Update the routing table based on updates from their neighbors.E. Maintain the topology of the entire network in its database. Answer: ADExplanation:Distance means how far and Vector means in which direction. Distance Vector routing protocols pass periodic copies of routing table to neighbor routers and accumulate distance vectors. In distance vector routing protocols, routers discover the best path to destination from each neighbor. The routing updates proceed step by step from router to router. QUESTION 95Which command is used to display the collection of OSPF link states? A. show ip ospf link-stateB. show ip ospf lsa databaseC. show ip ospf neighborsD. show ip ospf database Answer: DExplanation: The "show ip ospf database" command displays the link states. Here is an example:Here is the lsa database on R2.R2#show ip ospf databaseOSPF Router with ID (2.2.2.2) (Process ID 1)Router Link States (Area 0)Link ID ADV Router Age Seq# Checksum Link count2.2.2.2 2.2.2.2 793 0x80000003 0x004F85 210.4.4.4 10.4.4.4 776 0x80000004 0x005643 1111.111.111.111 111.111.111.111 755 0x80000005 0x0059CA 2133.133.133.133 133.133.133.133 775 0x80000005 0x00B5B1 2 Net Link States (Area 0)Link ID ADV Router Age Seq# Checksum10.1.1.1 111.111.111.111 794 0x80000001 0x001E8B10.2.2.3 133.133.133.133 812 0x80000001 0x004BA910.4.4.1 111.111.111.111 755 0x80000001 0x007F1610.4.4.3 133.133.133.133 775 0x80000001 0x00C31F QUESTION 96Refer to the exhibit. The technician wants to upload a new IOS in the router while keeping the existing IOS. What is the maximum size of an IOS file that could be loaded if the original IOS is also kept in flash?

```
System flash director
File Length Name/status
1 3802992 c827v-y6-mz.121-1.XB
[3803056 bytes used,4585552 available, 8388608 total]
8192K bytes of processor board System flash (Read/W
```

A. 3 MBB. 4 MBC. 5 MBD. 7 MBE. 8 MB Answer: BExplanation:In this example, there are a total of 8 MB, but 3.8 are being used already, so another file as large as 4MB can be loaded in addition to the original file. QUESTION 97If IP routing is enabled, which two commands set the gateway of last resort to the default gateway? (Choose two.) A. ip default-gateway 0.0.0.0B. ip route 172.16.2.1 0.0.0.0 0.0.0.0C. ip default-network 0.0.0.0D. ip default-route 0.0.0.0 0.0.0.0 172.16.2.1E. ip route 0.0.0.0 0.0.0.0 172.16.2.1 Answer: CEExplanation:Both the "ip default-network" and "ip route 0.0.0.0 0.0.0.0 (next hop)" commands can be used to set the default gateway in a Cisco router. QUESTION 98Refer to the exhibit. The two exhibited devices are the only Cisco

devices on the network. The serial network between the two devices has a mask of 255.255.255.252. Given the output that is shown, what three statements are true of these devices? (Choose three.)



```

Manchester# sh cdp entry *
-----
Device ID: London
Entry address(es):
  IP address: 10.1.1.2
Platform: cisco 2610, Capabilities: Router
Interface: Serial10/0, Port ID (outgoing port): Serial0/1
Holdtime : 125 sec

<output omitted>
    
```

A. The Manchester serial address is 10.1.1.1.B. The Manchester serial address is 10.1.1.2.C. The London router is a Cisco 2610.D. The Manchester router is a Cisco 2610.E. The CDP information was received on port Serial0/0 of the Manchester router.F. The CDP information was sent by port Serial0/0 of the London router. Answer: ACE  
 Explanation: From the output, we learn that the IP address of the neighbor router is 10.1.1.2 and the question stated that the subnet mask of the network between two router is 255.255.255.252. Therefore there are only 2 available hosts in this network ( $2^2 - 2 = 2$ ). So we can deduce the ip address (of the serial interface) of Manchester router is 10.1.1.1 -> The platform of the neighbor router is cisco 2610, as shown in the output -> Maybe the most difficult choice of this question is the answer E or F. Please notice that "Interface" refers to the local port on the local router, in this case it is the port of Manchester router, and "Port ID (outgoing port)" refers to the port on the neighbor router.  
 QUESTION 99 Which parameter would you tune to affect the selection of a static route as a backup, when a dynamic protocol is also being used? A. hop count B. administrative distance C. link bandwidth D. link delay E. link cost Answer: B  
 Explanation: By default the administrative distance of a static route is 1, meaning it will be preferred over all dynamic routing protocols. If you want to have the dynamic routing protocol used and have the static route be used only as a backup, you need to increase the AD of the static route so that it is higher than the dynamic routing protocol.  
 QUESTION 100 Refer to the exhibit. A network associate has configured OSPF with the command: City(config-router)# network 192.168.12.64 0.0.0.63 area 0 After completing the configuration, the associate discovers that not all the interfaces are participating in OSPF. Which three of the interfaces shown in the exhibit will participate in OSPF according to this configuration statement? (Choose three.)

```

City#show ip interface brief
    
```

Interface	IP-Address	OK?	Method
FastEthernet0/0	192.168.12.48	YES	manual
FastEthernet0/1	192.168.12.65	YES	manual
Serial0/0	192.168.12.121	YES	manual
Serial0/1	unassigned	YES	unset
Serial0/1.102	192.168.12.125	YES	manual
Serial0/1.103	192.168.12.129	YES	manual
Serial0/1.104	192.168.12.133	YES	manual

A. FastEthernet0 /0B. FastEthernet0 /1C. Serial0/0D. Serial0/1.102E. Serial0/1.103F. Serial0/1.104 Answer: BCD  
 Explanation: The "network 192.168.12.64 0.0.0.63 equals to network 192.168.12.64/26. This network has: + Increment: 64 (/26= 1111 1111.1111 1111.1111 1111.1100 0000) + Network address: 192.168.12.64+ Broadcast address: 192.168.12.127 Therefore all interface in the range of this network will join OSPF. If you want to pass the Cisco CCNA 200-120 exam successfully, recommend to read latest Cisco [200-120 dumps](#) full version.

