Vendor: CISCO
Exm Code: 640-822
Exam Name: Interconnecting Cisco Networking Devices Part 1 (ICND1)
QUESTION 1
After issuing the copy run start command, you make several changes to your lab router and realize that you were referencing a list of bad IP addresses to make these changes. Which command is most efficient to resolve your mistakes?

A. erase flash
B. restart
C. renew
D. erase nvram
E. reload
F. erase start

Answer: E

QUESTION 2
What is the best practice when assigning IP addresses in a small office of six hosts?

A. Use a DHCP server that is located at the headquarters.
B. Use a DHCP server that is located at the branch office.
C. Assign the addresses by using the local CDP protocol.
D. Assign the addresses statically on each node.

Answer: D

QUESTION 3
When files are transferred between a host and an FTP server, the data is divided into smaller pieces for transmission. As these pieces arrive at the destination host, they must be reassembled to reconstruct the original file. What provides for the reassembly of these pieces into the correct order?

A. the TTL in the IP header
B. the frame check sequence in the Ethernet frame trailer
C. the sequence number in the TCP header
D. the Start Frame Delimiter in the 802.3 Preamble
E. the acknowledgement number in the segment header

Answer: C

**QUESTION 4**
Which line from the output of the show ip interface command indicates that there is a Layer 1 problem?

A. Serial0/1 is up, line protocol is up
B. Serial0/1 is up, line protocol is down
C. Serial0/1 is down, line protocol is down
D. Serial0/1 is administratively down, line protocol is down

Answer: C

**QUESTION 5**
Refer to the exhibit. Two buildings on the San Jose campus of a small company must be connected to use Ethernet with a bandwidth of at least 100 Mbps. The company is concerned about possible problems from voltage potential differences between the two buildings. Which media type should be used for the connection?

A. UTP cable
B. STP cable
C. coaxial cable
D. fiber optic cable

Answer: D
QUESTION 6
A new LAN segment is allocated the network number 172.16.0.0/25. What range of addresses are available for hosts on that network?

A. 172.16.0.1 through 172.16.0.254
B. 172.16.0.1 through 172.16.0.126
C. 172.16.0.129 through 172.16.0.254
D. 172.16.0.1 through 172.16.1.254
E. 172.16.1.1 through 172.16.1.126
F. 172.16.1.1 through 172.16.1.254

Answer: B

QUESTION 7
What two actions must a router take in order to route incoming packets? (Choose two.)

A. Identify the destination network address of each packet.
B. Identify the source network address of each packet.
C. Validate sources of routing information.
D. Inspect the routing table to select the best path to the destination network address.
E. Verify the receipt of routed packets by the next hop router.
F. Inspect the ARP table to verify a legitimate source MAC address for each packet.

Answer: AD

QUESTION 8
What is the effect of using the service password-encryption command?

A. Only the enable password will be encrypted.
B. Only the enable secret password will be encrypted.
C. Only passwords configured after the command has been entered will be encrypted.
D. It will encrypt the secret password and remove the enable secret password from the configuration.
E. It will encrypt all current and future passwords.

Answer: E

QUESTION 9
Which IP addresses are valid for hosts belonging to the 10.1.160.0/20 subnet? (Choose three.)

A. 10.1.168.0
B. 10.1.176.1
C. 10.1.174.255
D. 10.1.160.255
E. 10.1.160.0
F. 10.1.175.255

Answer: ACD

QUESTION 10
An Ethernet cable is attached to a PC NIC and then attached to a switch port. The PC power is turned on and the switch port link LED turns green. The link light indicates what two conditions? (Choose two.)

A. Layer 2 communication has been established between the PC and switch.
B. The PC has received a DHCP address.
C. Traffic is being sent from the switch to the PC.
D. If flashing, the green LED indicates port speed of 100 Mb/s.
E. The Layer 1 media is functioning between the PC and switch.
F. The switch port is functioning as a half-duplex connection.

Answer: AE

QUESTION 11
Refer to the exhibit. Which default gateway address should be assigned to HostA?
QUESTION 12

Refer to the exhibit. After the power-on self test (POST), the system LED of a Cisco 2950 switch turns amber. What is the status of the switch?

A. The POST was successful.
B. The switch has a problem with the internal power supply and needs an external power supply to be attached.
C. POST failed and there is a problem that prevents the operating system of the switch from being loaded.
D. The switch has experienced an internal problem but data can still be forwarded.
at a slower rate.

E. The switch passed POST, but all the switch ports are busy.

Answer: C

QUESTION 13
In which situation would the use of a static route be appropriate?

A. To configure a route to the first Layer 3 device on the network segment.
B. To configure a route from an ISP router into a corporate network.
C. To configure a route when the administrative distance of the current routing protocol is too low.
D. To reach a network is more than 15 hops away.
E. To provide access to the Internet for enterprise hosts.

Answer: B

QUESTION 14
During the boot sequence, a 2600 series router needs to locate and load an operating system. What is the default order the router uses to find an operating system?

A. Flash, TFTP server, ROM
B. Flash, TFTP server, RAM
C. Flash, NVRAM, TFTP server
D. ROM, TFTP server, Flash
E. Flash, ROM, TFTP server

Answer: A

QUESTION 15
How can an administrator determine if a router has been configured when it is first powered up?
A. A configured router prompts for a password.
B. A configured router goes to the privileged mode prompt.
C. An unconfigured router goes into the setup dialog.
D. An unconfigured router goes to the enable mode prompt.

Answer: C

QUESTION 16
What is the subnet address of 172.16.159.159/22?

A. 172.16.0.0
B. 172.16.128.0
C. 172.16.156.0
D. 172.16.159.0
E. 172.16.159.128
F. 172.16.192.0

Answer: C

QUESTION 17
Which two statements describe the IP address 10.16.3.65/23? (Choose two.)

A. The subnet address is 10.16.3.0 255.255.254.0.
B. The lowest host address in the subnet is 10.16.2.1 255.255.254.0.
C. The last valid host address in the subnet is 10.16.2.254 255.255.254.0.
D. The broadcast address of the subnet is 10.16.3.255 255.255.254.0.
E. The network is not subnetted.

Answer: BD

QUESTION 18
What are two effects on network performance of configuring a switch to store an entire frame before forwarding it to the destination? (Choose two.)
A. increase in switch operating speed
B. increased latency
C. filtering of all frame errors
D. filtering of collision fragments only
E. propagation of corrupted or damaged frames
F. decreased latency

**Answer:** BC