

Easy Crambible Lab



CCNA Bible 2001

Cisco Certified Network Associate

Exam 640-507

(Single License Version)

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**1. Which three statements about Cisco's implementation of IP routing are true?
(Choose three.)**

- A. Routers can learn next hops dynamically.
- B. IP routing is disabled by default on Cisco routers.
- C. Routers can learn next hops through static routes.
- D. Entering ip route in global configuration mode enables IP routing.
- E. Routers learn next hops by receiving periodic updates from other routers.

Answer:A,C,E

2. For what is the ICMP ping command used?

- A. to view the routing table
- B. to verify basic network connectivity
- C. to redirect data through the network
- D. to verify Layer 7 connectivity on the network

Answer:B

3. Which statement best describes the network layer of the OSI reference model?

- A. It segments and reassembles data into a data stream.
- B. It provides error detection and correction, and flow control.
- C. It determines the best way to move data from one place to another.
- D. It provides a common representation of application Information while the information is in transit between two cooperating computer systems.

Answer:C

4. Click the Task button.

place step one here	Synchronization of a pattern of 1's and 0's with some clocking function allows transmission on a medium and recognition of the data bits.
place step two here	Data is segmented and packaged with information to allow the sending and receiving hosts to reliably communicate.
place step three here	Alphanumeric user input is formatted for sending over the internetwork.
place step four here	A frame is built to allow communication over an interface to the network.
place step five here	Data is encapsulated with a network header specifying source and destination logical addresses.

Place the data encapsulation steps in the proper order.

Answer: 3 2 5 4 1

5. Which four functions are performed by the network layer of the OSI model?

(Choose four)

- A. It uses a two part address.
- B. It maintains routing tables.
- C. It uses broadcast addresses.
- D. It establishes network addresses.
- E. It provides access to the LAN media.
- F. It provides media independence for upper layers.
- G. It provides path selection for internetwork communication.

Answer: A, B, D, G

6. How does a bridge function?

- A. It maintains a table of the IP addresses of the hosts connected to its network segment.
- B. It passes packets outside of its network segment if the IP address cannot be found on its table.
- C. It looks up the frame's destination in its address table and sends the frame toward the destination host.
- D. It maintains a table of the data link layer and network layer addresses for the hosts connected to its network segment.

Answer: C

7. The following commands are entered in enabled mode:

configure terminal

boot system tftp IOS - filename tftp_address

boot system flash IOS-filename

boot system rom

exit

copy running-config startup-config

The router first attempts to obtain its boot image from ____

- A. ROM
- B. FLASH
- C. NVRAM
- D. TFTP server

Answer:B

8. In which service is PPP compression negotiated?

- A. NCP
- B. LCP
- C. PCP
- D. IPCP

Answer:B

9. Which command enables directly connected network 199.55.72.0 to be used by RIP?

- A. Router(config-router)# rip 199.55.0.0
- B. Router(config-router)# rip 199.55.72.0
- C. Router(config-router)# network 199.55.0.0
- D. Router(config-router)# network 199.55.72.0

Answer:D

10. Which statement is true?

- A. A broadcast source MAC address contains all zeros.
- B. A MAC address is part of the physical layer of the OSI model.
- C. MAC addresses are used by bridges to make forwarding decisions, while IP addresses are used by routers.
- D. IP addresses allow a flat addressing scheme, while MAC addresses use a hierarchical addressing scheme.

Answer:C

11. If you are in IOS user mode, which command do you use to enter the privileged mode?

- A. set
- B. enable
- C. configure
- E. privileges

Answer:B

12. Which two solutions are used to reduce the chance of distance vector routing loops? (Choose two.)

- A. split horizon
- B. route poison
- C. area hierarchies
- D. link-state algorithms

Answer:A,B

13. IPX supports multiple logical networks on an individual interface by using a unique (Choose two.)

- A.network number
- B. routing protocol
- C. encapsulation type
- D. autonomous system number

Answer:A,C

14. Which two statements about enabling the Novell IPX protocol on a router are true? (Choose two.)

- A. NLSF supports primary and secondary networks.
- B. You can apply a maximum of one input filter and one output filter per interface.
- C. You can configure multiple IPX networks on any supported interface as long as each network uses a distinct encapsulation type.
- D. A logical network on an interface is considered to be a secondary network as long as you include the keyword secondary in the command.
- E. Because subinterfaces are logical entities of a physical interface, any interface configuration parameters that you specify on an individual subinterface are applied to all subinterfaces for a given interface.

Answer:C,D

15. Your terminal, which is attached to a Cisco router, displays the following prompt:

Router (config) #

What is the effect of pressing control-Z?

- A. The effect of the last entered number is undone.
- B. All router configuration options are returned to the defaults.
- C. All router configuration options are returned to their last saved values.
- D. Exit global configuration mode and the router is returned to user EXEC mode.
- E. All configuration modes are exited and the router is returned to privileged EXEC mode.

Answer:D

16. What is the most common Layer 2 device?

- A. hub
- B. router
- C. switch
- D. repeater

Answer:C

17. Which two statements about the store and forward switching method are true? (Choose two.)

- A. Latency remains constant regardless of frame size.
- B. Latency through the switch varies with frame length.
- C. The switch receives the complete frame before beginning to forward it.
- D. The switch checks the destination address as soon as it receives the header and begins forwarding the frame immediately.

Answer:B,D

18. What are three presentation layer standards? (Choose three.)

- A. NFS and SQL
- B. PICT and JPEG
- C. MIDI and MPEG
- D. ASCII and EBCDIC
- E. RCP and NetBios Names

Answer:B,C,D

19. Which two IOS commands activate command syntax help? (Choose two.)

- A. sh?
- B. sh ?
- C. sh help
- D. <F1> key

Answer:A,B

20. The Frame Relay switch uses ____ to distinguish between each PVC connection.

- A. DLCIs
- B. BECNs
- C. FECNs
- D. the LMI

Answer:A

21. Which two statements about Cisco routers are true? (Choose two.)

- A. Never connect a router with a U interface into an NT 1
- B. Always connect a router with a U interface into an NT 1.
- C. If you see a connector labeled BRI, your router is a TE1
- D. If you see a connector labeled BRI, your router is a TE2.

Answer:B,C

22. What is a function of a reliable transport layer connection?

- A. route selection
- B. acknowledgments
- C. session checkpoints
- D. system authentication

Answer:B

23. What are three benefits of ISDN? (Choose three.)

- A. PVCs are faster and more reliable.
- B. No specialized equipment is required.
- C. Data transfer is faster than typical modems.
- D. Call setup is faster than standard telephone service.
- E. It carries many types of data traffic such as voice, video, and data.

Answer:C,D,E

24. Which class of IP addresses allows the largest number of hosts?

- A. A
- B. B
- C. C
- E. D

Answer:A

25. With a Class C network and subnet mask of 255.255.255.192, how many usable subnets are created?

- A. 1
- B. 2
- C. 6
- D. 8
- E. 14

Answer: B

26. Which router command allows you to determine if an access list is enabled on a particular interface?

- A. Router> show Interface
- B. Router# show ip -interface
- C. Router> show access-lists
- D. Router# show ip access-lists

Answer: B

27. At which OSI layer(s) does the Frame Relay standard operate?

- A. network layer
- B. data link layer
- C. network and transport layers
- D. session and presentation layers

Answer: B

28. What is a SPID?

- A. An SPID is a common ISDN switch type for the United States.
- B. It is a series of characters used with ISDN, that identifies you to the switch at the central office.
- C. it is a number that identifies the logical circuit between the source and destination device in a Frame Relay connection.
- D. It is a signaling standard between the CPE device and Frame Relay switch that is responsible for managing the connection and maintaining status between the devices.

Answer: B

29. What are two functions of the ICMP protocol? (Choose two.)

- A. to map IP addresses to Ethernet addresses
- B. to map common names to network addresses
- C. to forward SNMP alerts to management consoles
- D. to generate an echo reply in response to a ping test

E. to send a host or port unreachable message from a router to the source of an undeliverable packet

Answer:D,E

30. Which two statements about flow control are true? (Choose two.)

- A. The host controls the next hop in the path to the destination device.
- B. All datagrams arriving faster than the device can process are stored in memory.
- C. Receive Ready/Receive Not Ready messages are used to control data transmission.
- D. When buffers are filled to capacity, datagrams are discarded until memory is available.
- E. If any point in the network fails during data transmission, the network immediately hangs up the call.

Answer:B,C

31. Which two statements about the transport layer are true? (Choose two.)

- A. Ports are used to pass information to the lower layers.
- B. Protocols include file transfer, e-mail, and remote login.
- C. Port numbers above 1023 are dynamically assigned by the Network Information Center (NIC).
- D. Port numbers are used to keep track of different conversations crossing the network at the same time.
- E. Protocols include a connection-oriented, reliable protocol and a connectionless, unacknowledged protocol.

Answer:D,E

32. Which three pieces of CDP information about neighboring routers is displayed on your console terminal? (Choose three.)

- A. a neighboring router's host name
- B. the neighboring router's hardware platform
- C. up to one address for each protocol supported
- D. up to two addresses for each protocol supported
- E. as many addresses as are configured for each protocol supported

Answer:A,B,C

33. Given:

Switch A operates by examining the address field immediately upon receipt and comparing it to its switching table. When the switch finds a match for the destination, it immediately begins to route the packet to its destination. The packet data streams through the switch before the end of the packet has finished entering the switch.

Which switching method is represented by Switch A?

-
- A. latency
 - B. cut-off
 - C. cut-through
 - D. store and forward

Answer:C

34. Which two statements about serial communication are true? (Choose two.)

- A. Demarc is a switching device located on the boundary of a toll network.
- B. CPE are devices that are usually located at a WAN service subscriber site.
- C. DTE is equipment, such as DSU/CSU, modem, or NT1 that connects to a WAN service provider network.
- D. CO is a central office switching facility that is the nearest point of presence for a WAN service provider network.

Answer:B,D

35. IPX servers advertise through ____ updates.

- A. SAP
- B. RIP
- C. NCP
- D. IGRP

Answer:A

36. What is an advantage of using a connectionless protocol such as UDP?

- A. Packet acknowledgment may reduce overhead traffic.
- B. Loss or duplication of data packets is less likely to occur.
- C. Packets are not acknowledged, which reduces overhead traffic.
- D. The application layer relies on the transport layer for sequencing of the data packets.

Answer:C

37. Which command will configure a Cisco router to load IOS software from ROM?

- A. Router (confjg)#IOS ROM
- B. Router # startup-config ROM
- C. Router (config)#boot system ROM
- D. Router (config)#config start ROM
- E. Router (confjg)#config-register 0x10F

Answer:C

38. Which statement best describes the presentation layer of the OSI reference model?

- A. It provides system-independent "process" or "program" services to end users.

-
- B. It governs the electrical, mechanical, and procedural data bit transmission over a medium, such as coaxial cable.
- C. It provides data transfer, control, and management between cooperating application processes over a session connection.
- D. It provides a common representation of application information while the information is in transit between two cooperating computer systems.

Answer:D

39. A router Belongs to ____ of the OSI model .

- A. Layer 1
- B. Layer 2
- C. Layer 3
- E. Layer 4

Answer:C

40. Which two commands allow you to verify address configuration in your internetwork? (Choose two.)

- A. ping
- B. trace
- C. verify
- D. test ip
- E. echo ip
- F. connect
- G. config ip

Answer:A,B

41. What does the command show access-list 101 do?

- A. It lists all extended access lists.
- B. It lists all access lists within the router.
- C. It lists the contents of standard access list 101
- D. It lists the contents of extended access list 101

Answer:D

42. What are two session layer standards? (Choose two.)

- A. NFS and SQL
- B. PICT and JPEG
- C. MIDI and MPEG
- D. ASCII and EBCDIC
- E. RPC and NetBios Names

Answer:A,E

43. What is the total bandwidth of all channels on a BRI circuit?

- A. 56 kps
- B. 64 kps
- C. 112 kps
- D. 128 kps
- E. 144 kps

Answer:E

44. You are having IP connectivity problems to one or more Frame Relay peer routers. Which two commands should you use to show which routers are reachable? (Choose two.)

- A. show ip map
- B. show ip route
- C. show fram-relay map
- D. debug frame-relay map

Answer:B,D

45. Which three statements about flow control using connection-oriented protocols are true? (Choose three.)

- A. If using TCP, a smaller window size will conserve available bandwidth.
- B. A TCP host sends a packet with a window size of zero if its receive buffers are full and it cannot receive any more data.
- C. If a source does not receive an acknowledgment it knows that the packets should be retransmitted and that the transmission rate should be slowed.
- D. Positive acknowledgment requires a recipient to communicate with the source, sending back an acknowledgment message when it receives data.

Answer:B,C,D

46. You have a Frame Relay link on serial 1. Which command displays the LMI, DLCI, and bandwidth for that link?

- A. show interface serial1
- B. show frame-relay serial1
- C. show protocol frame-relay serial1
- D. show serial1 encapsulation frame-relay

Answer:A

47. Which command displays IPX routing update packets received or transmitted between a router?

-
- A. show ipx rip
 - B. debug ipx route
 - C. show ipx routing activity
 - D. debug ipx routing activity

Answer:D

48. Which statement about positive acknowledgment with retransmission is true?

- A. The receiver keeps a record of negative acknowledgments (NAK).
- B. The receiver waits for an acknowledgment before receiving the next data packet.
- C. The sender will retransmit a packet if a timer expires before an acknowledgment is received.
- D. The sender waits for the previous packet to be returned using a two-phase commit before continuing.

Answer:C

49. Which command displays all the commands in the history buffer?

- A. Ctrl><H>
- B. show buffer
- C. show history
- D. show history buffer

Answer:C

50. Which command identifies IGRP as the routing protocol for autonomous system 100?

- A. Router(conf ig)# jgrp 100
- B. Router(config)# network 100
- C. Router(config)# router igrp 100
- D. Router(config)# enable igrp 100

Answer:C

51. Network 150.125.0.0 has the subnet mask 255.255.248.0. If an access list is applied to 150.125.8.0, with the wild card mask 0.0.7.255, which addresses will this match?

- A. only subnet 150.125.8.0
- B. all subnets higher than 150.131.8.0
- C. any subnet on the network 150.125.0.0
- D. subnets 150.131.8.0 through 150.131.15.0

Answer:A

52. Which two commands display the IPX address assignment on the interface Ethernet0?(Choose two.)

- A. show ipx e0
- B. show ipx interface
- C. display ipx interface
- D. show interface ethernet0
- E. show ipx interface ethernet
- F. show ipx address /ethernet0
- G. show ipx interface ethernet0
- H. show interface E0 ipx address
- I. display ipx address interface E0

Answer:D,G

53. Using the subnet mask of 255.255.255.0. which class and subnet identifies the address 138.55.124.10?

- A. Class B, Subnet 138.55.0.0
- B. Class C, Subnet 138.55.0.0
- C. Class B, Subnet 138.55.124.0
- D. Class C, Subnet 138.55.124.0

Answer:C

54. Click the Task button.

Place the name of the OSI layer next to its description.

OSI Layer

Name	Description			
place here	This layer segments and reassembles data into a data stream.			
place here	This layer manages device addressing, tracks the location of devices on the network, and determines the best way to move data.			
place here	This layer provides the physical transmission of the data and handles error notification, network topology, and flow control.			
physical	data link	network	transport	session

Answer: Transport,Network,Data link

55. Which setting indicates the default bandwidth setting for a serial DCE interface?

- A. T4
- B. 56 Kbps
- C. 64 Kbps
- D. 10 Mbps
- E. 128 Kbps
- F. 1200 bps
- G. 1.544 Mbps

Answer:G

56. What will segmenting a network with a bridge result in?

- A. increasing the number of broadcast domains
- B. increasing the number of collision domains
- C. decreasing the number of broadcast domains
- D. decreasing the number of collision domains

Answer:B

57. An IPX address has 80 bits: 32 for the _____ and 48 for the _____

- A. network number; IP address
- B. MAC address; node number
- C. network number; MAC address
- D. network number; subnet number

Answer:C

58. If you had a single subnet representing your entire Frame Relay network, how would you specify the subinterface?

- A. interface Serial0.2 multipoint
- B. subinterface Serial0.2 multipoint
- C. interface Serial0.2 point-to-point
- D. subinterface Serial0 point-to-point

Answer:C

59. Which layer is responsible for segmenting data from upper layer applications?

- A. network
- B. data link
- C. transport
- D. presentation

Answer:C

60. You are discussing network design with a company's management team. You determine that a new testing application is going to require multiple hosts. These hosts must be capable of sharing data between each host and the company's enterprise server at 10mbps bandwidth. Other company divisions use file sharing, word-processing, and accounting applications that require less than 2 mbps bandwidth of the enterprise server. What is your most economical recommendation?

- A. You suggest that existing 10baseT hubs be replaced with 100baseT hubs to improve overall performance.
- B. You suggest that a router can separate the testing application from the rest of the network thus allowing the testing application more bandwidth.
- C. You suggest that a switch be installed so that the enterprise server can be provided a 100mbps port and each of the testing application hosts can be given dedicated 10mbps ports.
- D. You suggest a bridge be placed between the enterprise server and all other users with the exception of the testing application. By placing the testing application in the same network segment as the enterprise server you ensure that testing will receive more bandwidth.

Answer:B

61. When editing text input, which key combination moves the cursor to the beginning of the command line?

- A. edit /b
- B. ctrl and A simultaneously
- C. ctrl and B simultaneously
- D. ctrl and P simultaneously

Answer:B

62. Which two password types control access to a router? (Choose two.)

- A. a masked password in ROM monitor mode
- B. a password before entering privileged EXEC mode
- C. a password when logging into the router through Telnet
- D. a TACACS or Radius password required upon entering setup mode

Answer:B,C

63. You have just issued the erase startup-config command and reloaded your router. Once your router reboots, you will be in ____ mode.

- A. setup
- B. startup
- C. user EXEC
- D. user privileged
- E. global configuration

Answer:A

64. Given: You have just entered the commands:

Router(config) # access-list 1 permit 192.50.19.0 0.0.0.255

Router(config) # interface serial0

Router(config-if) # ip access-group

Which three statements are true? (Choose three.)

- A. This access list will not filter any network traffic going out serial 1.
- B. This access list will not allow any traffic to enter the interface serial 0.
- C. This access list will not filter any traffic entering the serial 0 interface.
- D. This access list will only permit traffic from the network 192.50.19.0 to go out the serial 0 interface.

Answer:A,C,D

65. Which layer provides electrical transmission across the medium?

- A. network
- B. physical
- C. data link
- D. transport

Answer:B

66. Given the following descriptions of layers of the OSI model:

- 1) This layer segments and reassembles data into a data stream.**
 - 2) This layer manages device addressing, tracks the location of devices on the network, and determines the best way to move data.**
 - 3) This layer provides the physical transmission of the data and handles error notification, network topology, and flow control. List the layers in the order described.**
- A. physical, data link, network
 - B. physical, session, data link
 - C. data link, network, transport
 - D. data link, transport, network
 - E. transport, network, data link
 - F. transport, data link, network

Answer:E

67. Which command retrieves a router's configuration file from NVRAM?

- A. config NVRAM
- B. copy NVRAM running-config
- C. copy startup-config running-config
- D. copy running-config startup-config

Answer:C

68. What is the process of adding header information to data in order to promote the information transfer?

- A. segmenting
- B. conversion
- C. transmission
- D. encapsulation

Answer:D

69. Click the Task button.

During encapsulation, in which order does the packaging of information make changes? Place the steps in the proper order.

Steps		Order
segment	1.	place step one here
packet	2.	place step two here
data	3.	place step three here
frame	4.	place step four here

Answer:Dara,Segment,Packet,Frame

70. Which statement best describes MAC and IP addresses?

- A. The MAC address is represented as a 32-bit dotted decimal number and the IP address is represented as a 48-bit hexadecimal number.
- B. The MAC address is represented as a 48-bit hexadecimal number and the IP address is represented as a 32-bit dotted decimal number.
- C. The MAC address is represented as a 32-bit hexadecimal number and the IP address is represented as a 48-bit dotted decimal number.
- D. The MAC address is represented as a 48-bit dotted decimal number and the IP address is represented as a 32-bit hexadecimal number.

Answer:B

71. Which access configuration allows only traffic from network 135.55.0,0 to enter interface e0 (IP address = 12.123.221.3)?

- A. access-list 1 permit 135.55.0.0 0.0.255.255

interface ethernet 0
ip access-group 1 in.
B. access-list 1 deny all except 135.55.0.0
e0 add access-list 1.
C. access-list 1 permit 135.55.0.0
e0 ip access-group I out.
D. access-list 101 135.55.0.0 0.0.255.255 12.123.221.3
interface ethernet 0
ip access-group 101 in.
E. access-list 101 135.55.0.0 only
interface ethernet 0
ip access-group 101.

Answer:A

72. Given the command:

Router(config)#ip route 172.15.0.0 255.255.0.0 172.137.14.78 120

Which three things are specified? (Choose three.)

- A. Your originating network is 172,15.0.0.
- B. Your next hop address is 172.137.14.78.
- C. You are using the autonomous system of 120.
- D. You are using the default class C subnet mask.
- E. You are using the administrative distance of 120.
- F. Your static route is to destination network 172.15.0.0.

Answer:B,E,F

73. Which statement about banners is true?

- A. Message-of-the-day banners are displayed at login.
- B. You must start a mess age-of-the-day banner with a "!"
- C. The banner motd command is used to add a description to a specific interface.
- D. The interface description command must end with a delimiting character of your choice.

Answer:A

74. Which statement about CDP is true?

- A. You enable CDP on an interface by issuing the cdp run command.
- B. To disable CDP on the interface, type the no cdp enable command.
- C. Advertisement and discovery using CDP involves IP packet exchanges.
- D. You disable CDP on the entire router by issuing the no cdp enable command.

Answer:B

75. Which command will successfully ping an individual IP address?

- A. Router> ping 192.5.5.0
- B. Router# ping 192.5.5.30
- C. Router> ping 192.5.5.256
- D. Router# ping 192.5.5.255

Answer:B

76. Which two statements about the functions of a MAC address are true? (Choose two.)

- A. It enables multiplexing over a single interface.
- B. It uniquely identifies devices on the same medium,.
- C. It uses Network Protocol Data Units (NPDUs) for link management.
- D. It is copied into RAM when the network interface card (NIC) initializes.

Answer:B,D

77. What must you do in order to enable IP on a router interface?

- A. place an entry in the IP routing table
- B. configure an IP address on that interface
- C. configure a routing protocol including that interface
- D. issue copy running-config startup-config command

Answer:B

78. Which two statements about BRI are true? (Choose two.)

- A. BRI connects to an NT 1 for 4-wire connection.
- B. BRI operates with the Cisco 5000 series routers.
- C. BRI is a two 56-kbps bearer channel (2B) plus one 16-kbps data channel (+D) service.
- D. BRI is a two 64-kbps bearer channel (2B) plus one 16-kbps data channel (+D) service.

Answer:A,D