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1 Marks:
1

A network administrator wishes to load a configuration file from a TFTP server into NVRAM on a router. Which of the following methods will create a startup-config file in NVRAM that matches the contents of the configuration file on the TFTP server?

Choose one
answer.

- ☐ a. Copy the configuration file from a TFTP server using the command **copy tftp startup-config**.
- ☐ b. Copy the configuration file from a TFTP server using the command **copy <filename> startup-config**.
- ☐ c. Copy the file to RAM from a console connection using the **copy tftp running-config** command. Then reload the router to use the new configuration.
- ☐ d. Paste the configuration file to the command line of the router while in global configuration mode. Then issue the **copy startup-config running-config** command.

2 Marks:
1

How many collision domains exist in a network containing two hubs?

Choose one
answer.

- ☐ a. one
- ☐ b. three
- ☐ c. two
- ☐ d. five

3 Marks:
1

The individual ports of a non-intelligent hub can be assigned to how many VLAN(s)?

Choose one
answer.

- ☐ a. Two

- ☐ b. One
- ☐ c. Three
- ☐ d. None

4 

Marks:

1

Where does the horizontal cable extend?

- Choose one answer.
- ☐ a. From the main distribution frame in the wiring closet to the vertical cross connect in the intermediate distribution frame
- ☐ b. From the patch panel in the point of presence to the backbone connection in the customer premises equipment
- ☐ c. From the telecommunications outlet in the work area to the horizontal cross-connect in the telecommunications closet
- ☐ d. From the telecommunications outlet in the wiring closet to the conduit in the intermediate distribution frame

5 

Which of the following is true about a CSMA/CD network?

Marks:

1

- Choose one answer.
- ☐ a. Signals are always sent in multi-frame broadcast mode.
- ☐ b. One node's transmission traverses the entire network and is seen and checked by every node.
- ☐ c. Signals are sent directly to the destination if both the MAC and IP addresses are known by the source.
- ☐ d. One node's transmission goes to the nearest router that sends it directly to the destination.

6 

What is the ability to expand the network without having to perform any major changes to the overall design?

Marks:

1

- Choose one answer.
- ☐ a. Operability
- ☐ b. Scalability
- ☐ c. Manageability
- ☐ d. Functionality

7 

Which protocol is used to dynamically assign IP addresses?

Marks:

1

- Choose one answer.
- ☐ a. proxy ARP
- ☐ b. ARP
- ☐ c. IGRP
- ☐ d. DHCP

8 

Marks: Which Layer 1 device is used to extend the coverage area of a LAN segment?

1

- Choose one answer.
- ☐ a. Router
 - ☐ b. Repeater
 - ☐ c. Gateway
 - ☐ d. Switch
-

9  Which of the following refers to the data capacity of a link?

Marks:

1

- Choose one answer.
- ☐ a. Reliability
 - ☐ b. Hop Count
 - ☐ c. Delay
 - ☐ d. Bandwidth
-

10  What is the primary cause of crosstalk?

Marks:

1

- Choose one answer.
- ☐ a. electrical motors and lighting
 - ☐ b. too much noise in a cable's data signal
 - ☐ c. cable wires that are too large in diameter
 - ☐ d. electrical noise from other wires in a cable
-

11  Which term refers to the number of messages that can be transmitted before receiving an acknowledgement?

Marks:

1

- Choose one answer.
- ☐ a. Two way handshake
 - ☐ b. Closed connection
 - ☐ c. Window size
 - ☐ d. Expectational acknowledgement
-

12  What is a router's main responsibility when routing packets?

Marks:

1

- Choose one answer.
- ☐ a. Enforcing security
 - ☐ b. Path determination
 - ☐ c. Traffic control
 - ☐ d. Collision avoidance
-

13 

Marks: Which command will configure the hostname on a router?

1

- Choose one answer.
- ☐ a. Router
 - ☐ b. Router(config)
 - ☐ c. Router
 - ☐ d. Router(config)
-

14  What is an alternative name for backbone cabling?

Marks:

1

- Choose one answer.
- ☐ a. Horizontal cabling
 - ☐ b. Main cabling
 - ☐ c. Trunk cabling
 - ☐ d. Vertical cabling
-

15  If Host A is setting up a three-way handshake with Host B, and Host A sends a segment with sequence number n to Host B, what is Host B going to send back to Host A as an acknowledgment?

Marks:

1

- Choose one answer.
- ☐ a. $n1$
 - ☐ b. n
 - ☐ c. $n + n$
 - ☐ d. $n + 1$
-

16  When using Telnet, where does all the processing and storage take place?

Marks:

1

- Choose one answer.
- ☐ a. On the remote computer
 - ☐ b. On the DNS server
 - ☐ c. On the local computer
 - ☐ d. On the local Telnet server
-

17  Which command shows the status of Ethernet, Serial, BRI, and other ports?

Marks:

1

- Choose one answer.
- ☐ a. *show running-config*
 - ☐ b. *show startup-config*
 - ☐ c. *show version*
 - ☐ d. *show interfaces*
-

Marks: 1 Which of the following is the correct process for trouble-shooting network problems?

- Choose one answer.
- ☐ a. work through the OSI model from physical layer to application layer
 - ☐ b. both b and c
 - ☐ c. work from the software to the hardware
 - ☐ d. work through the OSI model from application layer to physical layer
-

19  Host A is assigned the IP address 10.18.97.55 /21. How many more network devices can be assigned to this subnetwork if Host A is the only one that has an IP address assigned so far?

Marks: 1

- Choose one answer.
- ☐ a. 2045
 - ☐ b. 8190
 - ☐ c. 4094
 - ☐ d. 509
 - ☐ e. 1021
 - ☐ f. 254
-

20  Which router component stores the information that is displayed by the **show ip route** command?

Marks: 1

- Choose one answer.
- ☐ a. CPU
 - ☐ b. NVRAM
 - ☐ c. RAM
 - ☐ d. Flash
-

21  How many bits are in the network/subnet portion of a class B network with a subnet mask of 255.255.240.0?

Marks: 1

- Choose one answer.
- ☐ a. 18
 - ☐ b. 19
 - ☐ c. 20
 - ☐ d. 21
-

22  Router interface Ethernet 0 has been assigned the IP address 10.172.192.168 255.255.255.240. What is the address of the subnet to which this address belongs?

Marks:

- 1 answer. ☐ a. 10.172.192.0
☐ b. 10.172.192.168
☐ c. 10.172.0.0
☐ d. 10.0.0.0
☐ e. 10.172.192.175
☐ f. 10.172.192.160

23 Which kind of addressing scheme is formed by MAC addresses?

Marks:

1

- Choose one answer. ☐ a. Hierarchical
☐ b. Flat
☐ c. Elliptical
☐ d. Circular

24 Which of the following refers to the number of routers a packet must pass through?

Marks:

1

- Choose one answer. ☐ a. Hop count
☐ b. Tick count
☐ c. Bandwidth
☐ d. Delay

25 Which of the following describes the relationship between path determination and the routing of packets?

Marks:

1

- Choose one answer. ☐ a. Performed only by different devices
☐ b. Performed only by switches
☐ c. They are the same process
☐ d. They are different processes

26 Which of the following is **NOT** used as a baseline measure?

Marks:

1

- Choose one answer. ☐ a. Broadcast traffic
☐ b. Bandwidth utilization
☐ c. Configuration errors
☐ d. Collision count

27 A network administrator located at the East site needs to check the configuration

Marks:

1

of a switch located at the Corporate site. The **show hosts** command is entered on the East router but does not produce any output. Which command can be used to gain access?

- Choose one answer.
- ☐ a. **dial Corporate 172.16.15.5**
 - ☐ b. **telnet 172.16.15.5**
 - ☐ c. **line vty 0 4**
telnet
 - ☐ d. **telnet Corporate**

28 

Which ports are reserved by TCP and UDP for public applications?

Marks:

1

- Choose one answer.
- ☐ a. Numbers below 255
 - ☐ b. Numbers above 1023
 - ☐ c. Numbers from 255 to 1023

29 

What happens if a data packet reaches a router that is destined for a network with which that router is not directly connected?

Marks:

1

- Choose one answer.
- ☐ a. The router returns the packet to the source device with the explanation that the destination was unreachable
 - ☐ b. The packet is dropped immediately
 - ☐ c. The router returns the packet to the source device with no explanation
 - ☐ d. The router forwards the packet to another router that most likely contains information about the destination

30 

Which address appears in an IP packet's header?

Marks:

1

- Choose one answer.
- ☐ a. Source Address
 - ☐ b. Destination address
 - ☐ c. There are no addresses in the IP packet header.
 - ☐ d. Both A and B

31 

How many total subnets can be created if four bits are borrowed from the host field?

Marks:

1

- Choose one answer.
- ☐ a. 32
 - ☐ b. 64
 - ☐ c. 16

☐ d. 8

32 

Marks:

1

Since TCP reassembles segments into complete messages, what happens if a sequence number is missing in the series?

- Choose one answer.
- ☐ a. All segments are retransmitted from the beginning
 - ☐ b. The segment is dropped
 - ☐ c. With TCP, sequence numbers are never checked
 - ☐ d. The missing segment is re-transmitted

33 

A punch tool is used to:

Marks:

1

- Choose one answer.
- ☐ a. Secure wires to a patch panel
 - ☐ b. Secure wires to a BNC connector
 - ☐ c. Make a hole in a plaster wall
 - ☐ d. Make a hole in a concrete wall

34 

What is the default subnet mask for a Class A address?

Marks:

1

- Choose one answer.
- ☐ a. 255.255.0.0
 - ☐ b. 255.0.0.0
 - ☐ c. 255.255.255.255
 - ☐ d. 255.255.255.0

35 

How many collision domains exist in a network containing one repeater AND one hub?

Marks:

1

- Choose one answer.
- ☐ a. two
 - ☐ b. three
 - ☐ c. five
 - ☐ d. one

36 

What is specified by the network number in an IP address?

Marks:

1

- Choose one answer.
- ☐ a. The network to which the host belongs.
 - ☐ b. The node of the subnetwork which is being addressed.

- ☐ c. The broadcast identity of subnetwork.
- ☐ d. The physical identity of the computer on the network.

37 

Marks:

1

Which OSI layer adds an IP header?

Choose one
answer.

- ☐ a. Layer 4
- ☐ b. Layer 3
- ☐ c. Layer 1
- ☐ d. Layer 2

38 

What is used to alleviate congestion?

Marks:

1

Choose one
answer.

- ☐ a. Increase the bandwidth
- ☐ b. Install more hubs
- ☐ c. Use a bus topology
- ☐ d. Use an extended star

39 

Which layer of the OSI model has the primary duty of regulating the flow of information from source to destination, and to do it reliably and accurately?

Marks:

1

Choose one
answer.

- ☐ a. Presentation
- ☐ b. Transport
- ☐ c. Session
- ☐ d. Network

40 

What information does testing a network by using *telnet* provide?

Marks:

1

- Choose one
answer.
- ☐ a. Whether the TCP/IP application as well as lower-layer services function properly.
- ☐ b. Which router in a path is the last one to be reached.
- ☐ c. Path-to-host reliability, delays over the path, and whether the host can be reached.
- ☐ d. Only whether the physical interface is operational.

41 

Which of the following is a program that spreads across computers and usually reproduces copies of itself in a computer's memory?

Marks:

1

Choose one
answer.

- ☐ a. BDU's

☐ b. SAP updates

42 

☐ c. Worm

Marks:

☐ d. CRC error

1

Which of the following is a disadvantage of using routers in a network?

Choose one ☐ a. Routers decrease latency.

answer.

☐ b. Routers have no disadvantages.

☐ c. Routers increase latency.

☐ d. Routers must connect to a switch.

43 

Which of the following is the approximate number of hosts supported in a Class B unsubnetted network?

Marks:

1

Choose one ☐ a. 2024

answer.

☐ b. 254

☐ c. 65 thousand

☐ d. 16 million

44 

Which of the following improves the performance of a shared media LAN?

Marks:

1

Choose one ☐ a. Segmenting the network

answer.

☐ b. Installing more servers and printers

☐ c. Installing a more powerful server

☐ d. Moving the workstations closer together

45 

What is the correct term for the sequence that synchronizes a connection at both ends before any user data is exchanged?

Marks:

1

Choose one ☐ a. Three way handshake

answer.

☐ b. Closed connection

☐ c. Segment retransmission

☐ d. Sliding windows

46 

Which of the following routes within an IGRP autonomous system does not include subnet information?

Marks:

1

Choose one ☐ a. interior routes

answer.

- ☐ b. system routes
- ☐ c. border routes
- ☐ d. exterior routes

47

Marks:

1

Which technique controls the amount of unacknowledged data in transit at any one time and helps enable TCP reliability?

- Choose one answer.
- ☐ a. Collision avoidance
- ☐ b. Error recovery
- ☐ c. Windowing
- ☐ d. Broadcasting

48

Marks:

1

Which of the following best describes the address 139.219.255.255 in an unsubnetted environment?

- Choose one answer.
- ☐ a. Class B broadcast address
- ☐ b. Class B host address
- ☐ c. Class C host address
- ☐ d. Class A broadcast address

49

Marks:

1

A network administrator is not sure of the syntax of a command. What can the network administrator enter on the router to determine the options available for the command?

- Choose one answer.
- ☐ a. ?
- ☐ b. **configure**
- ☐ c. **help**
- ☐ d. **prompt**
- ☐ e. **show**

50

Marks:

1

Which of the following best describes the TCP/IP protocol stack?

- Choose one answer.
- ☐ a. Maps closely to the OSI reference model in the upper layers.
- ☐ b. Reassembles datagrams into complete messages at the receiving location.
- ☐ c. Enables communication among any set of interconnected networks.
- ☐ d. Transfers information in a sequence of datagrams.

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