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## CCNA 1 (v5.1 + v6.0) Pretest Test Online 2017-2018

CCNA Exam Answers 2017 March 14, 2016

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### 1. Question

1 points

Which is a characteristic of the Internet?

1. ☒ It is not centrally governed.

2. ☐ It uses only physical addresses.

3. ☐ It uses private IP addressing.

4. ☐ It is localized to specific geographic locations.

Correct

### 2. Question

1 points

Match the form of network communication with its description. (Not all options are used.)

Sort elements

podcast

real-time communication of between two or more people	<b>instant messaging</b>
Interactive websites where people created and share user-generated content with friends and family	<b>social media</b>
Web pages that groups of people can edit and view together	<b>weblog (blog)</b>
an audio-based medium that allows people to deliver their recordings to a wide audience	<b>wiki</b>
<b>Incorrect</b>	

### 3. Question

1 points

Why would a network administrator use the tracer utility?

- ☐ to determine the active TCP connections on a PC
- ☐ to check information about a DNS name in the DNS server
- ☒ to identify where a packet was lost or delayed on a network
- ☐ to display the IP address, default gateway, and DNS server address for a PC

**Correct**

### 4. Question

1 points

A network technician is attempting to configure an interface by entering the following command: SanJose(config)# ip address 192.168.2.1 255.255.255.0. The command is rejected by the device. What is the reason for this?

- ☒ The command is being entered from the wrong mode of operation.
- ☐ The command syntax is wrong.
- ☐ The subnet mask information is incorrect.
- ☐ The interface is shutdown and must be enabled before the switch will accept the IP address.

**Correct**

### 5. Question

1 points

What protocol is responsible for controlling the size of segments and the rate at which segments are exchanged between a web client and a web server?

1. ☒ TCP

2. ☐ IP

3. ☐ HTTP

4. ☐ Ethernet

Incorrect

## 6. Question

1 points

Which statement is true about variable-length subnet masking?

1. ☐ Each subnet is the same size.

2. ☒ The size of each subnet may be different, depending on requirements.

3. ☐ Subnets may only be subnetted one additional time.

4. ☐ Bits are returned, rather than borrowed, to create additional subnets.

Correct

## 7. Question

1 points

How does a networked server manage requests from multiple clients for different services?

1. ☐ The server sends all requests through a default gateway.

2. ☒ Each request is assigned source and destination port numbers.

3. ☐ The server uses IP addresses to identify different services.

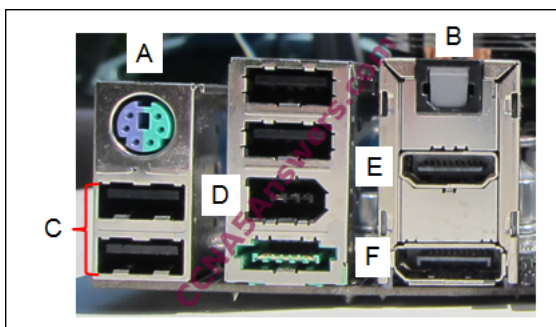
4. ☐ Each request is tracked through the physical address of the client.

Correct

## 8. Question

4 points

Refer to the exhibit. Match the port to the associated letter shown in the exhibit. (Not all options are used.)



5

SHARES



S/PDIF

PS/2

Display Port

HDMI

IEEE 1394

USB

Incorrect

9. Question

1 points

What statement describes the function of the Address Resolution Protocol?

- ☐ ARP is used to discover the IP address of any host on a different network.
- ☐ ARP is used to discover the IP address of any host on the local network.
- ☐ ARP is used to discover the MAC address of any host on a different network.
- ☒ ARP is used to discover the MAC address of any host on the local network.

Correct

10. Question

1 points

If a technician uses an average of 2 cans of compressed air per week for cleaning, how many cans should be ordered for 8 technicians over the next 10 weeks?

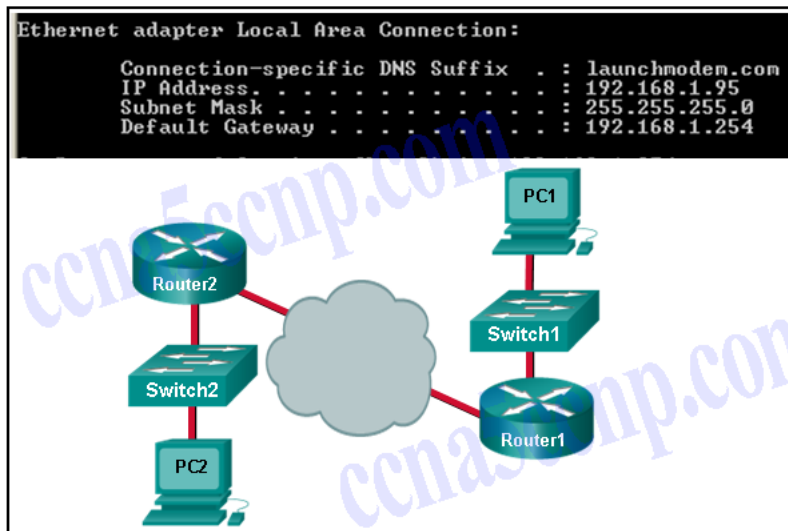
- ☐ 16
- ☐ 20
- ☐ 80
- ☒ 160
- ☐ 200

Correct

11. Question

1 points

Refer to the exhibit. Consider the IP address configuration shown from PC1. What is a description of the default gateway address?



- ☐ It is the IP address of the Router1 interface that connects the company to the Internet.
- ☒ It is the IP address of the Router1 interface that connects the PC1 LAN to Router1.
- ☐ It is the IP address of Switch1 that connects PC1 to other devices on the same LAN.
- ☐ It is the IP address of the ISP network device located in the cloud.

Correct

### 12. Question

1 points

A wireless host needs to request an IP address. What protocol would be used to process the request?

- ☐ FTP
- ☐ HTTP
- ☒ DHCP
- ☐ ICMP
- ☐ SNMP

Correct

### 13. Question

1 points

What is a function of the BIOS?

- ☐ enables a computer to connect to a network
- ☐ provides temporary data storage for the CPU
- ☒ performs a power-on self test of internal components
- ☐ provides graphic capabilities for games and applications

Correct

### 14. Question

1 points

What are the three ranges of IP addresses that are reserved for internal private use? (Choose three.)

- ☒ 10.0.0.0/8
- ☐ 64.100.0.0/14
- ☐ 127.16.0.0/12
- ☒ 172.16.0.0/12
- ☐ 192.31.7.0/24
- ☒ 192.168.0.0/16

Correct

### 15. Question

1 points

Considering the average capacity of storage device media, drag the storage media on the left to the capacity list on the right.

hard drive

DVD

CD

floppy disk

Correct

### 16. Question

1 points

Which option shows the proper notation for an IPv6 address?

- ☐ 2001,0db8,3c55,0015,abcd,ff13

2. ☐ 2001-0db8-3c55-0015-abcd-ff13
3. ☒ 2001.0db8.3c55.0015.abcd.ff13
4. ☐ 2001:0db8:3c55:0015::abcd:ff13

Incorrect

### 17. Question

1 points

What is the purpose of having a converged network?

1. ☐ to provide high speed connectivity to all end devices
2. ☐ to make sure that all types of data packets will be treated equally
3. ☒ to achieve fault tolerance and high availability of data network infrastructure devices
4. ☐ to reduce the cost of deploying and maintaining the communication infrastructure

Incorrect

### 18. Question

1 points

A network administrator is troubleshooting connectivity issues on a server. Using a tester, the administrator notices that the signals generated by the server NIC are distorted and not usable. In which layer of the OSI model is the error categorized?

1. ☐ presentation layer
2. ☐ network layer
3. ☒ physical layer
4. ☐ data link layer

Correct

### 19. Question

1 points

Match the application with the correct compressed file format. (Not all options are used.)

#### Sort elements

HTML

Compressed  
video formats (1)

QuickTime

Compressed  
video formats (2)

MPEG

Compressed  
image formats  
(3)

GIF

Compressed  
image formats  
(4)

JPEG

Incorrect

### 20. Question

1 points

A technician uses the ping 127.0.0.1 command. What is the technician testing?

1. ☒ the TCP/IP stack on a network host
2. ☐ connectivity between two adjacent Cisco devices
3. ☐ connectivity between a PC and the default gateway
4. ☐ connectivity between two PCs on the same network
5. ☐ physical connectivity of a particular PC and the network

Correct

## 21. Question

1 points

A user is having problems accessing the Internet. The command ping <http://www.cisco.com> fails. However, pinging the IP address of cisco.com with the command ping 198.133.219.25 is successful. What is the problem?

1. ☐ The web server is down.
2. ☐ The default gateway is incorrect.
3. ☒ There is a problem with DNS.
4. ☐ The address of the ARP cache is incorrect.

Correct

## 22. Question

1 points

Refer to the exhibit. Match the packets with their destination IP address to the exiting interfaces on the router. (Not all targets are used.)

```
<output omitted>
Gateway of last resort is 0.0.0.0 to network 0.0.0.0

  10.0.0.0/24 is subnetted, 1 subnets
C    10.1.0.0 is directly connected, Serial0/0/0
  172.17.0.0/24 is subnetted, 4 subnets
O    172.17.6.0 [110/2] via 192.168.3.4, 00:10:41, FastEthernet0/0
O    172.17.10.0 [110/2] via 192.168.5.2, 00:09:52, FastEthernet1/1
O    172.17.12.0 [110/2] via 192.168.4.2, 00:12:23, FastEthernet1/0
C    172.17.14.0 is directly connected, FastEthernet0/1
C    192.168.3.0/24 is directly connected, FastEthernet0/0
C    192.168.4.0/24 is directly connected, FastEthernet1/0
C    192.168.5.0/24 is directly connected, FastEthernet1/1
S*  0.0.0.0/0 is directly connected, Serial0/0/0
```

## Sort elements

The packet is dropped

packets with  
destination of  
172.17.10.5

Fast Ethernet 1/1

packets with  
destination of  
172.17.12.10

Fast Ethernet 1/0

packets with  
destination of  
172.17.14.8

Fast Ethernet 0/1

packets with  
destination of

Serial 0/0/0

172.17.8.20	
packets with destination of 172.17.6.15	Fast Ethernet 0/0

Correct

### 23. Question

1 points

What will a host on an Ethernet network do if it receives a frame with a destination MAC address that does not match its own MAC address?

- ☒ It will discard the frame.
- ☐ It will forward the frame to the next host.
- ☐ It will remove the frame from the media.
- ☐ It will strip off the data-link frame to check the destination IP address.

Correct

### 24. Question

1 points

A local real estate company can have its 25 computer systems upgraded for \$1000. If the company chooses only to upgrade 10 systems, how much will the upgrade cost if the same rate is used?

- ☐ \$100
- ☐ \$200
- ☒ \$400
- ☐ \$500
- ☐ \$600

Correct

### 25. Question

1 points

Which device should be used for enabling a host to communicate with another host on a different network?

- ☐ switch
- ☐ hub
- ☒ router
- ☐ host

Correct

### 26. Question

1 points

A company is expanding its business to other countries. All branch offices must remain connected to corporate headquarters at all times. Which network technology is required to support this requirement?

- ☐ LAN
- ☐ MAN
- ☒ WAN
- ☐ WLAN



Correct

### 27. Question

1 points

Which connection provides a secure CLI session with encryption to a Cisco switch?

1. ☐ a console connection
2. ☐ an AUX connection
3. ☐ a Telnet connection
4. ☒ an SSH connection

Correct

### 28. Question

1 points

A home user is looking for an ISP connection that provides high speed digital transmission over regular phone lines. What ISP connection type should be used?

1. ☒ DSL
2. ☐ dial-up
3. ☐ satellite
4. ☐ cell modem
5. ☐ cable modem

Correct

### 29. Question

1 points

Convert the binary number 10111010 into its hexadecimal equivalent. Select the correct answer from the list below.

1. ☐ 85
2. ☐ 90
3. ☒ BA
4. ☐ A1
5. ☐ B3
6. ☐ 1C

Correct

### 30. Question

1 points

Which protocol translates a website name such as <http://www.cisco.com> into a network address?

1. ☐ HTTP
2. ☐ FTP
3. ☐ DHCP
4. ☒ DNS

Correct

### 31. Question

1 points

The failure rate in a certain brand of network interface card has been determined to be 15%. How many cards could be expected to fail in a company that has 80 of the cards installed?

1. ☐ 8
2. ☐ 10
3. ☒ 12
4. ☐ 15

Correct

### 32. Question

1 points

Which command can be used to test connectivity between two computers that are attached to a network?

1. ☐ ipconfig
2. ☒ ping
3. ☐ winipcfg
4. ☐ ifconfig
5. ☐ nbtstst -s

Correct



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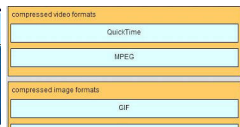
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