Name: ~~[redacted]~~   Department: Communication

ID: ~~[redacted]~~   Group: 2

20What is a result of using the service password-encryption command on a Cisco network device?

- The command encrypts the banner message.
- The command encrypts the enable mode password.
- All passwords in the configuration are not shown in clear text when viewing the configuration.
- A network administrator who later logs into the device will be required to enter an administrator password in order to gain access to the Cisco device.

21. Why would a Layer 2 switch need an IP address?

- to enable the switch to send broadcast frames to attached PCs
- to enable the switch to function as a default gateway
- to enable the switch to be managed remotely
- to enable the switch to receive frames from attached PCs

22.How many hosts are addressable on a network that has a mask of 255.255.224.0?

- 1023
- 8190
- 8192
- 4096
- 8129
- 8192

$2^{13} - 2 = 8190$

23. Which subnet would include the address 192.168.1.96 as a usable host address?

- 192.168.1.64/26
- 192.168.1.32/27
- 192.168.1.32/28
- 192.168.1.64/29

24.Which command or key combination allows a user to return to the previous level in the command hierarchy?

- end
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- Ctrl-Z
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30.Give the network address 172.16.0.0
The network administrator should divide the address into three subnets.

(2)

- A: 128 Hosts
- B: 510 Hosts
- C: 10 Hosts

(1) **31.What is the difference between OSI and TCP / IP? Make it clear.**

32. Both knew

(2)

- Institute of Electrical and Electronics Engineers.
- International Organization for Standardization.
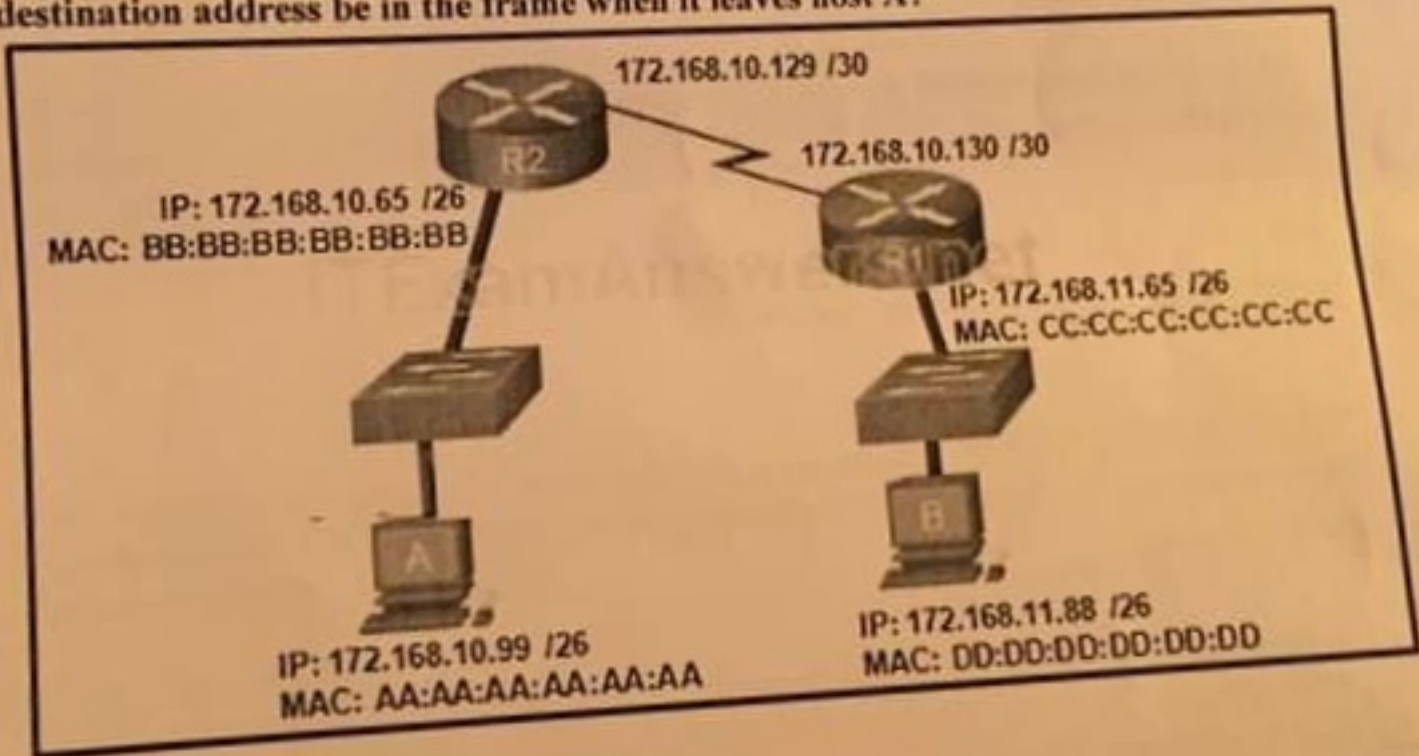- Internet Assigned Numbers Authority.

network administrator is troubleshooting connectivity issues on a server. Using 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?

- presentation layer
- network layer
- physical layer
- data link laye

10. Which type of UTP cable is used to connect a PC to a Router port?

- console
- rollover
- crossover
- straight-through

11. Refer to the exhibit. If host A sends an IP packet to host B, what will the destination address be in the frame when it leaves host A?

172.168.10.129 /30

R2

172.168.10.130 /30

IP: 172.168.10.65 /26
MAC: BB:BB:BB:BB:BB:BB

IP: 172.168.11.65 /26
MAC: CC:CC:CC:CC:CC:CC

IP: 172.168.10.99 /26
MAC: AA:AA:AA:AA:AA:AA

IP: 172.168.11.88 /26
MAC: DD:DD:DD:DD:DD:DD

- DD:DD:DD:DD:DD:DD
- BB:BB:BB:BB:BB:BB
- 172.168.10.99
- 172.168.11.88
- AA:AA:AA:AA:AA:AA

16. 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

17. Which three addresses are valid public addresses? (Choose three.)

- 198.186.0.17
- 172.19.1.245
- 10.15.250.5
- 172.255.255.252
- 172.116.0.0
- 64.104.78.227

18. How many valid host addresses are available on an IPv4 subnet that is configured with a /26 mask?

- 254
- 190
- 192
- 62
- 64

19. A site administrator has been told that a particular network at the site must accommodate 126 hosts. Which subnet mask would be used that contains the required number of host bits?

$2^7 = 128 - 1 = 127$ $32 - 7 = 25$ /25

- 255.255.255.0
- 255.255.255.128
- 255.255.255.224
- 255.255.255.240

255. 255. 255. 128

6. Refer to the exhibit. A network administrator is configuring access control to switch SW the administrator uses a console connection to connect to the switch, which password is needed to access user EXEC mode?

```
CET-SW1>ena
CET-SW1>enable
CET-SW1#con
CET-SW1#conf
CET-SW1#configure tr
CET-SW1#configure t
CET-SW1#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
CET-SW1(config)#line console 0
CET-SW1(config-line)#pa
CET-SW1(config-line)#pas
CET-SW1(config-line)#password cetcon123
CET-SW1(config-line)#login
CET-SW1(config-line)#exit
CET-SW1(config)#line vty 0 4
CET-SW1(config-line)#password cetvty123
CET-SW1(config-line)#login
CET-SW1(config-line)#exit
CET-SW1(config)#enable password cetena123
CET-SW1(config)#
```

Eng. Azouz

- cetena123
- cetcisco
- cetcon123
- cetvty123

7. Which two OSI model layers have the same functionality as two layers of the TCP/IP model? (Choose two.)

- data link
- network
- physical
- Application
- Transport

8.What is a characteristic of Carrier Sense Multiple Access/Collision Detection (CSMA/CD) (Choose two).

- Does not detect collisions but attempts to avoid them by waiting before transmitting.
- detect the collision on the network.
- Uses a method to detect if the media is clear.
- Data sent by both devices will be corrupted

. Which interface is the default SVI on a Cisco switch?

- FastEthernet 0/1
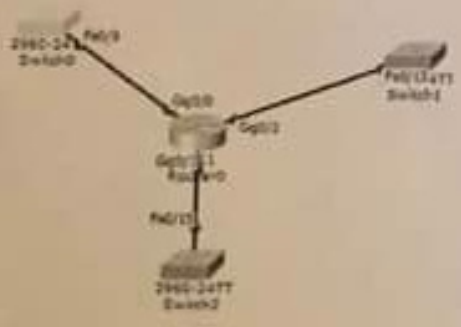- GigabitEthernet 0/1
- ~~VLAN 1~~
- VLAN 99

26. What does the IP address 172.24.17.0/19 represent?

- network address
- multicast address
- host address
- broadcast address

27. What subnet mask is represented by the slash notation /20?

- 255.255.255.248
- 255.255.224.0
- 255.255.240.0
- 255.255.255.0
- 255.255.255.192

29. Refer to the exhibit. How many broadcast domains are there?

- 1
- 2
- 3
- 4

12. What information is added during encapsulation at OSI Layer 3?

- source and destination MAC
- source and destination application protocol
- source and destination port number
- source and destination IP address

13. Refer to the exhibit. The network administrator for a small advertising company has chosen to use the 192.168.5.96/27 network for internal LAN addressing. As shown in the exhibit, a static IP address is assigned to the company web server. However, the web server cannot access the Internet. The administrator verifies that local workstations with IP addresses that are assigned by a DHCP server can access the Internet, and the web server is able to ping local workstations. Which component is incorrectly configured?

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically

● Use the following IP address:

IP address:	192 . 168 . 5 . 98
Subnet mask:	255 . 255 . 255 . 224
Default gateway:	192 . 168 . 5 . 1

● Use the following DNS server addresses:

Preferred DNS server:	128 . 208 . 2 . 254
Alternate DNS server:	. . .

- subnet mask
- DNS address
- host IP address
- default gateway address

15. When packets are to be delivered to ONLY a subset of network nodes we would use what?

- Broadcast.
- Multicast.
- Unicast.
- ARP