

What is the function of shell on operating system of device?

- It provides a command-line Interface CLI or graphic-user interface GUI.
- The Shell provisions hardware resources to meet software requirements.
- The Shell links the hardware drivers with the underlying electronics of a computer.
- None of above.

2- What is the Internet?

- It provides connections through interconnected global networks.
- It is a network based on Ethernet technology.
- It provides network access for mobile devices.
- It is a private network for an organization with LAN and WAN connections.

3- 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

4- Which command or key combination allows a user to return to the Privilege EXEC level in the command hierarchy?

- Ctrl-C
- exit
- Ctrl-Z
- None of above

5- How does the service password-encryption command enhance password security on Cisco routers and switches?

- It encrypts passwords that are stored in router or switch configuration files.
- It encrypts passwords as they are sent across the network.
- It requires encrypted passwords to be used when connecting remotely to a router or switch with Telnet.
- None of above

6- Which statement is correct about network protocols?

- Network protocols define the type of hardware that is used and how it is mounted in racks.
- They all function in the network access layer of TCP/IP.
- They are only required for exchange of messages between devices on remote networks.
- They define how messages are exchanged between the source and the destination.

7- What is the benefit of issuing a ping 10.1.1.1 command on a Switch?

- if the TCP/IP stack is functioning on the PC without putting traffic on the wire
- if there is connectivity with the destination device
- the path that traffic will take to reach the destination
- what type of device is at the destination

8- What type of information is included in the data-link header?

- encoded application data
- destination and source physical addresses
- destination and source port numbers
- none of above

9- What is the complete range of TCP and UDP Registered Ports?

- 0 to 255
- 0 to 1023
- 256 – 1023
- 1024 – 4915

10- Which flag in the TCP header is used to terminate connectivity between two network devices?

- ACK
- SYN
- FIN
- RST

11- What information is used by TCP to reassemble and reorder received segments?

- port numbers
- sequence numbers
- acknowledgment numbers
- fragment numbers

12- What does a client do when it has UDP datagrams to send?

- It queries the server to see if it is ready to receive data.
- It sends a simplified three-way handshake to the server.
- It sends to the server a segment with the SYN flag set to synchronize the conversation.
- None of above

13- What is the IPv6 link-local address for this MAC-Address: 00-11-97-61-76-DA

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14- Which two IPv4 to IPv6 transition techniques manage the interconnection of IPv6 domains? (Choose two.)

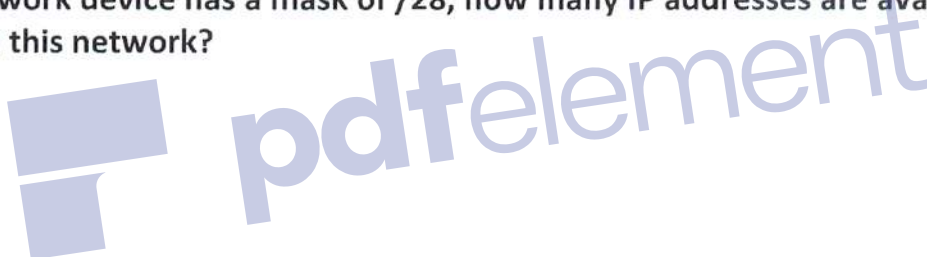
- trunking
- dual stack
- encapsulation
- tunneling
- multiplexing

15- What is the reason a network administrator might want to create subnets?

- simplifies network design
- reduction in number of routers needed
- reduction in number of switches needed
- none of above

16- If a network device has a mask of /28, how many IP addresses are available for hosts on this network?

- 126
- 62
- 30
- 16
- 14



17- Which two parts are components of an IPv4 address? (Choose two.)

- subnet portion
- network portion
- logical portion
- host portion
- physical portion
- broadcast portion

18- what is the purpose of the subnet mask in conjunction with an IP address?

- to determine the subnet to which the host belongs
- to uniquely identify a host on a network
- to identify whether the address is public or private
- to mask the IP address to outsiders

19- Which three IP addresses are public ? (Choose three.)

- 172.32.5.2
- 192.168.5.5
- 192.167.10.10
- 172.16.4.4
- 224.6.6.6
- 10.1.1.1

20- What are two characteristics of IP? (Choose two.)

- does not require a dedicated end-to-end connection
- retransmits packets if errors occur
- re-assembles out of order packets into the correct order at the receiver end
- operates independently of the network media
- guarantees delivery of packets

21- What will happen if the default gateway address is incorrectly configured on a host?

- The host cannot communicate with other hosts in the local network.
- The switch will not forward packets initiated by the host.
- The host will have to use ARP to determine the correct address of the default gateway.
- The host cannot communicate with hosts in other networks.
- A ping from the host to 127.0.0.1 would not be successful.

22- Following default settings, what is the next step in the router boot sequence after the POST?

- Perform the POST routine.
- Locate and load the startup-config file from NVRAM.
- Load the IOS from Flash or TFTP server.
- None of above

23- Which three commands are used to set up secure access to a router through a remote connection? (Choose three.)

- password cisco
- line vty 0 4
- line console 0
- enable secret cisco
- login

24- Match the command with the device mode at which the command is entered. (Not all options are used.)

Service password encryption	R1#
Copy running-configuration startup-configuration	R1(config-router)#
Enable	R1(config-if)#
Login	R1(config)#
Ip address 10.0.0.1 255.0.0.0	R1>
	R1(config-line)#

25- What happens to runt frames received by a Cisco Ethernet switch?

- The frame is dropped.
- The frame is returned to the originating network device.
- The frame is broadcast to all other devices on the same network.
- The frame is sent to the default gateway.

26- Which switching method not use the CRC value in a frame?

- cut-through
- fast-forward
- fragment-free
- store-and-forward

27- When a device is sending data to another device on a local network, the Ethernet frame is sent to the MAC address of the default gateway.

- true
- false

28- The ARP table in a switch maps which two types of address together?

- Layer 3 address to a Layer 2 address
- Layer 3 address to a Layer 4 address
- Layer 4 address to a Layer 2 address
- Layer 2 address to a Layer 4 address

29- Which type of connector does a network interface card use?

- DIN
- PS-2
- RJ-11
- RJ-45

30- What is the function of the CRC value that is found in the FCS field of a frame?

- to verify the physical address in the frame
- to verify the logical address in the frame
- to compute the checksum header for the data field in the frame
- to verify the integrity of the received frame

31- When is UDP preferred to TCP?

- when a client sends a segment to a server
- when all the data must be fully received before any part of it is considered useful
- when an application can tolerate some loss of data during transmission
- when segments must arrive in a very specific sequence to be processed successfully

32- Network administrator have three network, first network with 500 host, the second 200 host, and the third 20 host.
He had Ip address 172.16.20.0/22, how the administrator will subnet his network?

	First network	Second network	Third network
Network ID			
First IP			
Last IP			
Broad cast IP			
Subnet mask			

33- What are the three ways to access IOS command-line interface?

34- When the pc send the frame to the default gateway, and when not?

35- What is the difference between logical topology and physical topology?

36- What type of address is automatically assigned to an interface when IPv6 is enabled on that interface?

- global unicast
- link-local
- loopback
- unique local

37- What field content is used by ICMPv4 to determine that a packet has expired?

- TTL field
- CRC field
- Hop Limit field
- Time Exceeded field

Good Luck