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Vendor: CompTIA

Exam Code: N10-005

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Version: Demo

Question Set 1

QUESTION 1

A user's laptop is unable to keep a stable network connection. Which of the following measures would MOST likely need to be configured?

- A. SSID name
- B. WAP encryption strength
- C. WAP radio power
- D. Channel overlay

Correct Answer: C

Explanation

Explanation/Reference:

Explanation: WAP radio power is the signal strength through which you can specify the range from which you can stay connected to the network and access internet. Here, when the user is not able to maintain a stable connection then it is a problem with the signal strength for sure so you can try to increase the signal strength by increasing the radio power.

QUESTION 2

The Network Interface Layer of the TCP/IP model corresponds to which of the following layers of the OSI model? (Select TWO).

- A. Network
- B. Session
- C. Transport
- D. Physical
- E. Data link

Correct Answer: DE

Explanation

Explanation/Reference:

Explanation:

The network layer is responsible for packet forwarding including routing through intermediate routers, whereas the data link layer is responsible for media access control, flow control and error checking.

QUESTION 3

In which of the following layers of the OSI model would MAC addressing be found?

- A. Network
- B. Application
- C. Data Link
- D. Transport

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

The ITU-T G.hn standard, which provides high-speed local area networking over existing wires (power lines, phone lines and coaxial cables), includes a complete data link layer which provides both error correction and flow control by means of a selective repeat Sliding Window Protocol.

QUESTION 4

Several users from the finance department report that they are able to access the Internet, but unable to connect to their financial applications. The network technician is unable to ping the finance server. The technician decides to check the switch and determines that Internet access is working. Which of the following is a possible cause of the access issues?

- A. Faulty cable
- B. Remote management disabled
- C. Improper VLAN assignment
- D. Mismatched duplex

Correct Answer: C

Explanation

Explanation/Reference:

Explanation: Finance Server is placed in same VLAN which is assigned to finance users if they are able to access internet that's means connectivity to switch is good, so we have to check the VLAN assigned to users.

QUESTION 5

A technician needs to ensure that traffic from a specific department is separated within several switches. Which of the following needs to be configured on the switch to separate the traffic?

- A. Duplex settings
- B. SNMP string
- C. VLAN assignments
- D. Spanning tree

Correct Answer: C

Explanation

Explanation/Reference:

Explanation: A VLAN is a group of end stations with a common set of requirements, independent of physical location. VLANs have the same attributes as a physical LAN but allow you to group end stations even if they are not located physically on the same LAN segment.

QUESTION 6

Given a subnet mask of 255.255.255.0, how many usable IP addresses would be in that subnet?

- A. 250

- B. 254
- C. 255
- D. 256

Correct Answer: B

Explanation

Explanation/Reference:

Explanation: The Subnet Mask however, determines the "class" of a Network. 255.255.255.0 is a "Class C" network. A class c network can host up to 254 pc's

QUESTION 7

On which of the following OSI model layers would a MAC address be used?

- A. Network
- B. Data Link
- C. Transport
- D. Physical

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

Explanation: The ITU-T G.hn standard, which provides high-speed local area networking over existing wires (power lines, phone lines and coaxial cables), includes a complete data link layer which provides both error correction and flow control by means of a selective repeat Sliding Window Protocol.

QUESTION 8

Joe, a user, has a computer that has a link light on his network interface card (NIC); however, Joe is unable to access the Internet. Which of the following is the cause of this issue?

- A. Faulty GBIC
- B. Faulty SFP
- C. Cable is a crossover
- D. VLAN mismatch

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

As user has link light on NIC that means he has connectivity with switch so he need to check his vlan assignment.

QUESTION 9

A network technician is troubleshooting signal problems with certain WAPs in an office and finds consistently high ping times across the units. Such an issue is called which of the following?

- A. Latency
- B. Attenuation
- C. Crosstalk
- D. Frequency hopping

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

During the high ping time users are using most of the bandwidth that causes latency so signal strength get affected by this.

QUESTION 10

Which of the following TCP/IP model layers does the OSI model Presentation layer map to?

- A. Transport
- B. Internet
- C. Application
- D. Network Interface

Correct Answer: C

Explanation

Explanation/Reference:

Explanation: The Application layer provides applications the ability to access the services of the other layers and defines the protocols that applications use to exchange data. There are many Application layer protocols and new protocols are always being developed.

QUESTION 11

A customer wants to keep cost to a minimum and has only ordered a single static IP address from the ISP. Which of the following must be configured on the router to allow for all the computers to share the same public IP address?

- A. VLANs
- B. PoE
- C. PAT
- D. VPN

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

Port Address Translation (PAT), is an extension to network address translation (NAT) that permits multiple devices on a local area network (LAN) to be mapped to

a single public IP address. The goal of PAT is to conserve IP addresses.

QUESTION 12

Which of the following LAN technologies is used to provide a MAXIMUM bandwidth of 1Gbps through singlemode fiber?

- A. 10GBaseLR
- B. 100BaseFX
- C. 100BaseTX
- D. 1000BaseX

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

1000BaseX identifies various Gigabit Ethernet physical layer standards as defined in IEEE802.3z, such as 1000BaseLX, 1000BaseSX, 1000BaseCX and 1000BaseLH. Basically, all standards included in 1000BaseX uses 8B/10B coding scheme with 8 bits of data and 2 bits of error-correction data. Each specification allows various cable (fiber or copper) lengths, and uses different cable media.

QUESTION 13

Which of the following properties of DHCP would a technician use to ensure an IP address is not leased out from the active scope?

- A. Reservations
- B. Lease times
- C. Removing IPs from the active leases
- D. Configuring the DNS options

Correct Answer: A

Explanation

Explanation/Reference:

Explanation: Reservations are permanent lease assignments that are used to ensure that a specified client on a subnet can always use the same IP address. You can use DHCP reservations for hosts that require a consistent IP address, but do not need to be statically configured.

QUESTION 14

Spanning-Tree Protocol is used with which of the following network devices?

- A. Router
- B. NIC
- C. Switch
- D. DHCP server

Correct Answer: C

Explanation

Explanation/Reference:

Explanation: Spanning Tree Protocol (STP) is a Layer 2 protocol that runs on bridges and switches. The specification for STP is IEEE 802.1D. The main purpose of STP is to ensure that you do not create loops when you have redundant paths in your network. Loops are deadly to a network.

QUESTION 15

A technician wants to separate networks on a switch. Which of the following should be configured to allow this?

- A. VLAN
- B. Trunking
- C. Spanning tree
- D. Traffic filtering

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

A VLAN is a group of end stations in a switched network that is logically segmented by function, project team, or application, without regard to the physical locations of the users. VLANs have the same attributes as physical LANs, but you can group end stations even if they are not physically located on the same LAN segment.

QUESTION 16

A user wants to connect seven PCs together for a game night. Which of the following should the user install to help with this task?

- A. Media convertor
- B. Switch
- C. Firewall
- D. Bridge

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

They connect multiple PCs, printers, servers and other hardware. Switches allow you to send information, such as email, and access shared resources, including printers, in a smooth, efficient, and transparent manner.

QUESTION 17

Which of the following defines the amount of time a host retains a specific IP address before it is renewed or released?

- A. DHCP lease
- B. DNS suffix
- C. Subnet mask

D. DHCP reservation

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

By default, each IP address assigned by a DHCP Server comes with a one-day lease, which is the amount of time that the address is valid.

QUESTION 18

Users are reporting that some Internet websites are not accessible anymore. Which of the following will allow the network administrator to quickly isolate the remote router that is causing the network communication issue, so that the problem can be reported to the appropriate responsible party?

- A. Ping
- B. Protocol analyzer
- C. Tracert
- D. Dig

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

Tracert command will tell the administrator which route is not present or which is present so he will come to know whether he has appropriate route or not.

QUESTION 19

Ann, a new user, has a workstation that has connectivity to the printer located in her department, but cannot access the Internet. The result of an ipconfig command on Ann's workstation is as follows:

IP address: 192.168.0.124
Subnet Mask: 255.255.255.128
Default Gateway: 192.168.0.254

Which is MOST likely preventing the user from accessing the Internet?

- A. Duplicate IP address
- B. Incorrect gateway
- C. Incorrect VLAN
- D. Bad switch port

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

We usually give default gateway as an end device which is directly connected with ISP so in this case user has lost his connectivity with due to wrong default gateway configured.

QUESTION 20

Which of the following is the common port used for IMAP?

- A. 25
- B. 53
- C. 143
- D. 443

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

The Internet Message Access Protocol (commonly known as IMAP) is an Application Layer Internet protocol that allows an e-mail client to access e-mail on a remote mail server. The current version, IMAP version 4 revision 1 (IMAP4rev1), is defined by RFC 3501. An IMAP server typically listens on well-known port 143

QUESTION 21

Which of the following network protocols is used to resolve FQDNs to IP addresses?

- A. DNS
- B. FTP
- C. DHCP
- D. APIPA

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

An Internet service that translates domain names into IP addresses. Because domain names are alphabetic, they're easier to remember. The Internet however, is really based on IP addresses. Every time you use a domain name, therefore, a DNS service must translate the name into the corresponding IP address. For example, the domain name www.example.com might translate to 198.105.232.4.

QUESTION 22

Which of the following network protocols is used to transport email between servers?

- A. IMAP4
- B. POP3
- C. SNMP
- D. SMTP

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

While electronic mail servers and other mail transfer agents use SMTP to send and receive mail messages, user-level client mail applications typically use SMTP only for sending messages to a mail server for relaying

QUESTION 23

Ann, a technician, installs a new WAP and users are able to connect; however, users cannot access the Internet. Which of the following is the MOST likely cause of the problem?

- A. The signal strength has been degraded and latency is increasing hop count.
- B. An incorrect subnet mask has been entered in the WAP configuration.
- C. The signal strength has been degraded and packets are being lost.
- D. Users have specified the wrong encryption type and routes are being rejected.

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

Due to wrong subnet entered user is unable to communicate with anyone so to communicate he needs to be in right subnet.

QUESTION 24

Users have reported issues accessing an Internet website. The network technician wants to verify network layer connectivity. Which of the following tools can provide the verification?

- A. ping
- B. netstat
- C. route
- D. arp

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

Ping is a computer network administration utility used to test the reachability of a host on an Internet Protocol (IP) network and to measure the round-trip time for messages sent from the originating host to a destination computer.

QUESTION 25

Which of the following is the FASTEST Ethernet technology?

- A. 10GBaseSR
- B. 10BaseT
- C. 100BaseFX
- D. 1000BaseT

Correct Answer: A

Explanation

Explanation/Reference:

Explanation: 10GBASE-SR ("short range") is a port type for multi-mode fiber and uses 850 nm lasers. Its Physical Coding Sublayer 64b/66b PCS is defined in IEEE 802.3 Clause 49 and its Physical Medium Dependent PMD in Clause 52. It delivers serialized data at a line rate of 10.3125 Gbit/s.

QUESTION 26

Network upgrades have been completed and the WINS server was shutdown. It was decided that NetBIOS network traffic will no longer be permitted. Which of the following will accomplish this objective?

- A. Content filtering
- B. Port filtering
- C. MAC filtering
- D. IP filtering

Correct Answer: B

Explanation

Explanation/Reference:

Explanation: TCP/IP port filtering is the practice of selectively enabling or disabling Transmission Control Protocol (TCP) ports and User Datagram Protocol (UDP) ports on computers or network devices. When used in conjunction with other security practices, such as deploying firewall software at your Internet access point, applying port filters to intranet and Internet servers insulates those servers from many TCP/IP-based security attacks, including internal attacks by malicious users.

QUESTION 27

Companies trying to cut down on constant documentation of IP addresses could use which of the following?

- A. Longer lease times
- B. More reservations
- C. Larger scopes
- D. Dynamic IP addressing

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

In Dynamic IP addressing all the hosts with private ip address will be patted to the same ip so the administrator will not have to keep track of each and every host with private ip mapped to a static public ip address.

QUESTION 28

Which of the following DHCP properties defines the size of the pool of available IP addresses?

- A. Options
- B. Scope
- C. Leases
- D. Reservations

Correct Answer: B

Explanation

Explanation/Reference:

Explanation: A range of IP addresses that are available to be leased to DHCP clients by the DHCP Server service.

QUESTION 29

Which of the following protocols works at the LOWEST layer of the OSI model?

- A. L2TP
- B. PPTP
- C. ISAKMP
- D. IPSec

Correct Answer: A

Explanation

Explanation/Reference:

Explanation: Layer Two Tunneling Protocol (L2TP) is an extension of the Point-to-Point Tunneling Protocol (PPTP) used by an Internet service provider (ISP) to enable the operation of a virtual private network (VPN) over the Internet.

QUESTION 30

An employee connects to a work computer from home via the built-in Windows remote desktop connection. Which of the following is MOST likely being used to establish the connection?

- A. RDP
- B. RTP
- C. RIP
- D. RAS

Correct Answer: A

Explanation

Explanation/Reference:

Explanation: Remote Desktop Protocol (RDP) is a proprietary protocol developed by Microsoft, which provides a user with a graphical interface to connect to another computer over a network connection. The user employs RDP client software for this purpose, while the other computer must run RDP server software.

QUESTION 31

Discover, Offer, Request, and Acknowledge are the steps for which of the following protocols?

- A. DNS
- B. DOS
- C. DHCP
- D. DSL

Correct Answer: C

Explanation

Explanation/Reference:

Explanation: when we install a dhcp server into our network then dhcp server works on the basis of dora process first dhcp server sends a hello message in to the network to discover the clients pc and when any client pc found in the network then, dhcp server offers the IP to client pc. When client pc selects any IP from dhcp server then client pc request for selected IP to dhcp server then dhcp server provide that IP to client pc and both send acknowledgement to each other.

QUESTION 32

Which of the following commands displays the routing table on a server or workstation?

- A. nbtstat
- B. route
- C. traceroute
- D. nmap

Correct Answer: B

Explanation

Explanation/Reference:

Explanation: The route command allows you to make manual entries into the network routing tables. The route command distinguishes between routes to hosts ...

QUESTION 33

At which of the following layers of the OSI model does ASCII work?

- A. Session
- B. Transport
- C. Presentation
- D. Application

Correct Answer: C

Explanation

Explanation/Reference:

Explanation: The presentation layer is responsible for the delivery and formatting of information to the application layer for further processing or display. It relieves

the application layer of concern regarding syntactical differences in data representation within the end-user systems. An example of a presentation service would be the conversion of an EBCDIC-coded text computer file to an ASCII-coded file.

QUESTION 34

Which of the following uses port 23 by default?

- A. TELNET
- B. IMAP
- C. FTP
- D. SNMP

Correct Answer: A

Explanation

Explanation/Reference:

Explanation: Telnet is a network protocol used on the Internet or local area networks to provide a bidirectional interactive text-oriented communication facility using a virtual terminal connection. User data is interspersed in-band with Telnet control information in an 8-bit byte oriented data connection over the Transmission Control Protocol (TCP).

QUESTION 35

Assigning the same IP address to a network device is which of the following?

- A. SSID
- B. Scope
- C. Reservation
- D. Lease

Correct Answer: C

Explanation

Explanation/Reference:

Explanation: You might want to assign network printers and certain servers DHCP reservations to ensure that they always have the same IP address, but continue to receive updated configuration information from the DHCP server. For example, create reservations for servers that must always have the same IP address.

QUESTION 36

At which of the following layers do frames exist? (Select TWO).

- A. OSI model Data link layer
- B. TCP/IP model Network Interface layer
- C. OSI model Physical layer
- D. OSI model Network layer
- E. TCP/IP model Internet layer

Correct Answer: AB

Explanation

Explanation/Reference:

Explanation: The data link layer is concerned with local delivery of frames between devices on the same LAN. Data-link frames, as these protocol data units are called, do not cross the boundaries of a local network. Inter-network routing and global addressing are higher layer functions, allowing data-link protocols to focus on local delivery, addressing, and media arbitration. In this way, the data link layer is analogous to a neighborhood traffic cop; it endeavors to arbitrate between parties contending for access to a medium, without concern for their ultimate destination.

QUESTION 37

A user is unable to access any network resources. The IP configuration of the workstation is as follows:

IP Address: 192.168.10.32
Subnet Mask: 255.255.255.240
Default Gateway: 192.168.10.46

Which of the following would allow the user to connect to network resources?

- A. Change the default gateway to 192.168.10.1
- B. Change the default gateway to 192.168.10.254
- C. Change the IP address to 192.168.10.31
- D. Change the IP address to 192.168.10.33

Correct Answer: D

Explanation

Explanation/Reference:

Explanation: The given ip address is network id which we don't assign to the host so the next ip is applicable to this.

QUESTION 38

Which of the following DNS records is used to identify a domain's SMTP server?

- A. CNAME
- B. PTR
- C. MX
- D. A

Correct Answer: C

Explanation

Explanation/Reference:

Explanation: A mail exchanger record (MX record) is a type of resource record in the Domain Name System that specifies a mail server responsible for accepting email messages on behalf of a recipient's domain, and a preference value used to prioritize mail delivery if multiple mail servers are available. The set of MX records of a domain name specifies how email should be routed with the Simple Mail Transfer Protocol (SMTP).

QUESTION 39

Which of the following TCP ports are used by FTP? (Select TWO).

- A. 20
- B. 21
- C. 22
- D. 23
- E. 25
- F. 80

Correct Answer: AB
Explanation

Explanation/Reference:

Explanation:

FTP uses two ports by default: 21 for sending commands, and 20 for sending data. For instance if you said "FTP <ServerName>" it would make the attempt using port 21. If the session was established, port 20 would be using for the data. NotE. These are the default ports which is what I assume you were asking. A server administrator can however configure FTP to use whatever port he defines.

QUESTION 40

Which of the following protocols is MOST commonly used for the transfer of router configuration files?

- A. SSL
- B. TFTP
- C. DNS
- D. IMAP

Correct Answer: B
Explanation

Explanation/Reference:

Explanation: Trivial File Transfer Protocol (TFTP) is a file transfer protocol notable for its simplicity. It is generally used for automated transfer of configuration or boot files between machines in a local environment. Compared to FTP, TFTP is extremely limited, providing no authentication, and is rarely used interactively by a user.

QUESTION 41

Which of the following protocols resolves IP addresses to MAC addresses?

- A. DNS
- B. ARP
- C. RARP
- D. NTP

Correct Answer: B
Explanation

Explanation/Reference:

Explanation: ARP is used to convert an IP address to a physical address such as an Ethernet address. ARP has been implemented with many combinations of network and data link layer technologies, such as IPv4, Chaosnet, DECnet and Xerox PARC Universal Packet (PUP) using IEEE 802 standards, FDDI, X.25, Frame Relay and Asynchronous Transfer Mode (ATM). IPv4 over IEEE 802.3 and IEEE 802.11 is the most common case.

QUESTION 42

Which of the following port numbers is used for SNMP?

- A. 61
- B. 151
- C. 161
- D. 1611

Correct Answer: C
Explanation

Explanation/Reference:

Explanation: Simple Network Management Protocol (SNMP) is an "Internet-standard protocol for managing devices on IP networks". Devices that typically support SNMP include routers, switches, servers, workstations, printers, modem racks, UPSes and more. It is used mostly in network management systems to monitor network-attached devices for conditions that warrant administrative attention.

QUESTION 43

Which of the following is the definition of a DNS server?

- A. Hosts proprietary business applications
- B. Translates FQDN's to IP addresses
- C. Provides network IDS/IPS security
- D. Assigns IP addresses to network devices

Correct Answer: B
Explanation

Explanation/Reference:

Explanation:

Domain Name System (DNS) is the name resolution protocol for TCP/IP networks, such as the Internet. Client computers query a DNS server to resolve memorable, alphanumeric DNS names to the IP addresses that computers use to communicate with each other.

QUESTION 44

Which of the following features can BEST be used to facilitate authorized remote access to a network?

- A. VPN concentrator
- B. Proxy server
- C. Content filter

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