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Exam :N10-002
Title:Network+
Version Number:March,2003

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**Q1.**
Which device connects a computer to an analog data service provided by the local telephone company?

A. Fax machine
B. V.90 modem
C. ISDN adapter
D. LAN adapter

**Answer: B**

**Q2.**
A user has configured a Windows 9x workstation with a dial-up SLIP connection to an ISP. The system connects without a problem; however the user cannot access the Internet.

What is the first thing you should instruct the user to do?

A. Verify the userID
B. Verify the password
C. Verify the phone number of the ISP
D. Change the protocol from SLIP to PPP

**Answer: D**

**Q3.**
Which connector connects an external transceiver to a NIC?

A. ST
B. SC
C. AUI
D. BNC
E. RJ-45

**Answer: C**

**Q4.**
Which networking topology requires less hardware and cabling than other topologies?

A. Bus
B. Ring
C. Star
D. Mesh

**Answer: A**

**Q5.**
Which two communication protocols utilize a vector distance protocol to maintain routing table information?

A. TCP/IP
B. NetBEUI
C. IPX/SPX
D. AppleTalk

**Answer: A, C**

**Q6.**
You have completed a weekly backup of your network servers. Where should you keep the tapes, for disaster recovery?

A. In the CIO's office
B. In the Network administrator's desk
C. In a locked safe at an onsite location
D. In a locked safe at on offsite location

**Answer: D**

**Q7.**
You have a permanent connection to the Internet for your network. Your local network includes a Web server and an SMTP server. You are concerned about the threat of

hackers gaining access from the Internet. You have enforced HTTPS access to your Web server.

After you make this change, your Web server is no longer accessible from the Internet, but can still be accessed by your internal network users.

What would you predict is causing this problem?

A. Your DNS server is down.
B. Your Web server address has changed.
C. Your Internet router is blocking port 389.
D. Your Internet router is blocking port 443.

**Answer: D**

**Q8.**
What is the process of changing the configuration of an A, B, or C network so that it treats the network and node number differently?

A. Routing
B. Proxying
C. Subnetting
D. Reverse lookup

**Answer: C**

**Q9.**
Which three services does a proxy server provide? (Choose three.)

A. Cached e-mail
B. Cached client files
C. Cached web pages
D. Cached DNS information

**Answer: A, B, C**

**Q10.**

Which is a benefit of fault tolerance?

A. The efficient use of network bandwidth
B. The elimination of a single point of failure
C. The ability to restore data after a disk crash
D. The ability to distribute CPU load across multiple servers

**Answer: B**

**Q11.**
Yu are setting up a data link between two offices of your company. There are 17 employees located in each office. Your main concern as the Network Administrator is the speed of the connections and the reliability of transferring of data. You must also consider cost.

Which solution solves these issues?

A. Connect an ISDN circuit to each workstation in both locations
B. Place a modem on a server in each office to connect to each other
C. Use an ISDN circuit connected to a dedicated server in each building
D. Have each workstation at both locations use a modem to connect to the opposite office.

**Answer: C**

**Q12.**
You are configuring a Windows NT 4.0 workstation for dial-up networking. It will dial into a Microsoft Windows NT 4.0 Remote Access Server. The workstation needs to access a UNIX machine.

Which two should you install on the workstation to perform this operation? (Choose two.)

A. TCP/IP Protocol
B. NetBEUI Protocol
C. Remote Access Service
D. Novell Remote Console
E. IPX/SPX Compatible Protocol

**Answer: A, C**

**Q13.**
Your network uses DHCP to deliver IP settings to the Windows 2000 workstations. Your Network Administrator split the DNS domain into sub-domains. Users were not notified of the change until after it went into effect. Some users are now unable to reach the new sub-domain locations by host name.

What should you instruct users to do to correct this problem?

A. Reinstall the TCP/IP stack
B. Perform an **ipconfig/renew**
C. Perform an **ipconfig/showclassid**
D. Configure the subdomains in the IPX/SPX properties dialog box.
E. Configure the IP address of the subdomain in the TCP/IP properties dialog box.

**Answer: B**

**Q14.**
You have a Windows NT network of 50 users configured for DHCP. You want to create dial-in connectivity for the Engineering department. The server has an installed modem.

Where should you configure the modem's services?

A. My Computer -> Control Panel -> Services -> Add -> Remote Access Service
B. My Computer -> Control Panel -> Network -> Services -> Add -> Dial Up Services
C. Network Neighborhood -> Dial Up Networking -> Services -> Add -> Dial Up Services
D. Network Neighborhood -> Dial Up Networking -> Network -> Add -> Remote Access Service

**Answer: A**

**Q15.**
Which two are purposes of a firewall? (Choose two.)

A. Block traffic
B. Permit traffic
C. Verify company policies
D. Authenticate internal users

**Answer: A, B**

**Q16.**

Users on the network segment shown in the exhibit are experiencing slow response time.

Which statement is true?

A. The network segment is open.
B. The network is experiencing late collisions due to cable length.
C. The network token passing is delayed due to large file transfers.
D. The network is experiencing early collisions due to cable length.

**Answer: C**

**Q17.**
In which OSI layer does a repeater operate?

A. Network
B. Physical
C. Data link
D. Transport

**Answer: B**

**Q18.**
What is the maximum length of a 1000Base-CX segment?

A. 25 meters
B. 100 meters
C. 550 meters
D. 3 kilometers

**Answer: A**

**Q19.**
Which three methods should you use to achieve fault tolerance? (Choose three.)

A. Tape backup
B. Mirrored servers
C. RAID disk storage
D. Off-site data archive
E. Uninterruptible power supply

**Answer: A, B, C**

**Q20.**
Which OSI layer 4 protocol provides connectionless-oriented services?

A. IP
B. UDP
C. TCP
D. ICMP

**Answer: B**

**Q21.**
Which IPv4 address is a broadcast address for all nodes on the same network?

A. 0.0.0.0
B. 0:0:0:0
C. 255.255.255.255
D. 255:255:255:255

**Answer: C**

**Q22.**
Which OSI layer is responsible for dividng data into frames so it can be sent across a network?

A. Network
B. Data Link
C. Physical
D. Session
E. Transport

**Answer: B**

**Q23.**
You are connecting a Windows 98 workstation to an existing Novell NetWare 5.1 server. Network connectivity has already been verified for the workstation.

Which three steps are necessary to authenticate to the server? (Choose three.)

A. Configure the tree
B. Configure the context
C. Install the Novell NetWare client
D. Install File and Printer Sharing for NetWare Networks.

**Answer: A, B, C**

**Q24.**

Workstation B cannot retrieve files from server B. However, workstation A is able to retrieve files from server B without incident.

What is the most likely cause of this problem?

A. Bus failure
B. Server B failure
C. Router B failure
D. Token Ring failure

**Answer: A**

**Q25.**
Which TCP/IP utility lets you view the table that contains IP address to MAC address resolutions?

A. Arp
B. Ping
C. Telnet
D. Tracert
E. Netstat

**Answer: A**

**Q26.**
Which two protocols does Network Attached Storage (NAS) use? (Choose two.)

A. IPX
B. ATM
C. TCP/IP
D. Frame Relay

**Answer: A, C**

**Q27.**
Which protocol recovers from lost or corrupted packets during transmission?

A. IP
B. IPX
C. UDP
D. TCP
E. NetBIOS

**Answer: D**

**Q28.**
Which three platforms can function as a NetWare print server? (Choose three.)

A. Linux
B. Palm OS
C. NetWare 5
D. Windows CE
E. Windows NT

**Answer: A, C, E**

**Q29.**
Which name resolution technique does a UNIX host use?

A. DNS
B. DHCP
C. Proxy
D. LMHOSTS

**Answer: A**

**Q30.**
Which protocol maps IP addresses to layer 2 addresses?

A. IP
B. TCP
C. UDP
D. ARP

**Answer: D**

**Q31.**

You have finished building a small home network. You find that you cannot attach to Host X from your workstation. A visual examination reveals all link lights are lit.

Which component is the most likely cause of this problem?

A. Bad cable
B. Misconfigured router
C. Misconfigured modem
D. More information needed
E. Misconfigured NIC at the workstation

**Answer: E**

**Q32.**
Which cable type is least susceptible to cross-talk?

A. UTP
B. STP
C. Coaxial
D. Fiber optic

**Answer: D**

**Q33.**
How does user level security differ from share level security in a domain environment?

A. Fewer privileges can be set
B. One password is used for everyone to connect
C. Multiple accounts and privileges are centrally administered
D. Privileges and rights cannot be changed on a case-by-case basis

**Answer: C**

**Q34.**
Which protocol is used by most e-mail programs?

A. FTP
B. TFTP
C. SMTP
D. SNMP

**Answer: C**

**Q35.**
**Exhibit**

```
Windows IP Configuration
         Host Name..................... : emc454w11
         DNS Servers................... :
         Node Type..................... : Broadcast
         NetBIOS Scope ID............. :
         IP Routing Enabled........... : No
         WINS Proxy Enabled........... : No
         NetBIOS Resolution Uses DNS. : Yes

# Ethernet adapter :

         Description................... : Fast Ethernet+56K Modem Card
         Physical Address............. : 00-04-00-B3-20-4A
         DHCP Enabled................. : Yes
         IP Address................... : 192.168.10.23
         Subnet Mask................... : 255.255.255.0
         Default Gateway............. :
```

```
DHCP Server................. : 192.168.10.1
Primary WINS Server......... :
Secondary WINS Server....... :
Lease Obtained.............. : 03 06 03 11:23:12 AM
Lease Expires............... : 03 09 03 11:23:12 AM
```

You have finished building a small home network. Your DSL provider limits you to one static IP address. You give the IP address of your DHCP server to the DSL provider. During testing, you find that you cannot access the internet from the workstations. You ping all the devices inside the DHCP server successfully.

What is the cause of the problem?

A. Bad subnet mask
B. DNS server not set on the workstations
C. DNS server not set on the DHCP server
D. Default gateway not set on the workstations

**Answer: D**

**Q36.**
Which protocol identifies nodes through the use of the MAC address as part of its address scheme?

A. TCP/IP
B. IPX/SPX
C. NetBEUI
D. Banyan VINES

**Answer: B**

**Q37.**
A user cannot access one of two applications on a server. The other users can access both applications.

What is your first step to resolve the problem?

A. Reboot the server
B. Reboot the workstation
C. Check the user's password
D. Check the user's access permissions

E. Ask the user to access the problem application

**Answer: D**

**Q38.**
**Task**
You are installing a NIC for 100BASE-TX network.
Click the NIC that a 100BASE-TX network uses.

**Answer:**

**Q39.**
A user is unable to access data available to the account department but is able to view the data. Other users in the accounting department can access all data.

What is the cause of the problem?

A. Bad NIC
B. Insufficient user permission
C. Bad user name and password
D. Accounting system data is corrupt

**Answer: B**

**Q40.**
**Exhibit**

| Name | Type | HostAddress | Life [sec] |
|---|---|---|---|
| SERVER0 | <00> UNIQUE | 10.0.0.110 | 300 |

What does the command output indicate?

A. A ping to server0
B. A tracert to server0
C. The arp table of server0
D. The arp cache of server0
E. The NetBIOS name cache
F. The NetBIOS connection table

**Answer: E**

**Q41.**
Where is the packet sent if a client needs to send a packet that is not on the client's subnet?

A. Local host
B. Default gateway
C. The nearest bridge
D. Nowhere, because the packet is discarded

**Answer: B**

**Q42.**

What is shown in the Exhibit?

A. RJ 45 connector
B. BNC connector
C. AUI connector
D. STC connector

**Answer: B**

**Q43.**
Which networking topology has the most connections per node?

A. Bus
B. Ring
C. Star
D. Mesh

**Answer: D**

**Q44.**
What does IP use for host name resolution?

A. SAP
B. NDS
C. DNS
D. WINS

**Answer: C**

**Q45.**
Which network topology has physical paths between every node in a network of at least three nodes?

A. Bus
B. Ring
C. Star
D. Mesh

**Answer: D**

**Q46.**
In which two OSI layers does a NIC operate? (Choose two.)

A. Network
B. Session
C. Physical
D. Data Link
E. Transport
F. Application
G. Presentation

**Answer: C, D**

**Q47.**
Which IEEE specification uses a logical ring topology?

A. 802.3
B. 802.5
C. 802.12
D. 802.11b

**Answer: B**

**Q48.**
A new workstation cannot connect to a Windows NT network. The link lights on both the NIC and the switch show activity. All protocols are installed and the cable is functioning properly. However, a second user complains of a sudden connection problem.

What is the most likely cause?

A. DNS servers have not been assigned.
B. WINS servers have not been assigned.
C. Duplicate gateways have not been assigned
D. Duplicate IP addresses have been assigned.

**Answer: D**

**Q49.**
Which network transmission medium is limited to 10 megabits per second (Mbps) and can support cable segments up to a maximum of 100 meters (330 feet)?

A. 10Base2
B. 10Base5
C. 10Base-F
D. 10Base-T
E. 10Base36

**Answer: D**

**Q50.**
Which network file transfer protocol can be used only utilizing UDP?

A. NNTP
B. IRTF
C. SNMP
D. TFTP

**Answer: D**

**Q51.**
Which two protocols provide OSI Network layer addresses? (Choose two.)

A. IP
B. IPX
C. TCP
D. SPX
E. NetBEUI

**Answer: A, B**

**Q52.**
**Task**

Place an address next to its associated class.

| Term | Definition |
| --- | --- |
| *Place here* | Class A |
| *Place here* | Class B |
| *Place here* | Class C |

Choose from these

199.105.192.39 | 127.0.0.0 | 122.47.13.19 | 244.0.0.2 | 162.138.149.2

**Answer:**

**Q53.**
Which TCP/IP port number identifies Telnet sessions?

A. 21
B. 23
C. 25
D. 80
E. 110

**Answer: B**

**Q54.**
**Exhibit**

Workstation C cannot access Server A. Workstation C can successfully ping Server B. Workstation A can access Server A.

Which command should you issue at Workstation C to narrow down where the network failure is located?

A. Ping router B
B. Tracert Router B
C. Tracert Server A
D. Ping Workstation A

**Answer: C**

**Q55.**

```
Active Connections

    Proto    Local Address       Foreign Address       State
    TCP      dell-45:137         DELL:0                LISTENING
    TCP      dell-45:1026        DELL:0                LISTENING
    TCP      dell-45:1031        DELL:0                LISTENING
    TCP      dell-45:137         DELL:0                LISTENING
    TCP      dell-45:1031        Server5:1433          ESTABLISHED
    TCP      dell-45:137         DELL:0                LISTENING
    TCP      dell-45:138         DELL:0                LISTENING
    TCP      dell-45:nbsession   DELL:0                LISTENING
    TCP      dell-45:11487       DELL:0                LISTENING
    TCP      dell-45:1025        DELL:0                LISTENING
    TCP      dell-45:1027        DELL:0                LISTENING
    UDP      dell-45:nbname      *:*
    UDP      dell-45:nbdatagram  *:*
    UDP      dell-45:11487       *:*
```

Which command's output is displayed in the exhibit?

A. Nbtstat
B. Network
C. Netstat -a
D. Network -a

**Answer: C**

**Q56.**
You have replaced a NIC in a workstation on an operating network. The workstation cannot log on to the server.

What should you do to determine the most likely cause of the problem?

A. Reboot the server
B. Run MAU loopback tests
C. Run server NIC diagnostics
D. Run workstation NIC diagnostics

**Answer: D**

**Q57.**

In the configuration shown in the exhibit, the link lights on Interface A of the router and interface B of the hub are not lit. All other link lights are lit.

Which component could NOT have caused this problem?

A. Hub
B. Router
C. Modem
D. Patch cord

**Answer: C**

**Q58.**
All users in an office cannot access the WAN. The office system was up and running this morning. At 10 A.M. there was an installation of a new employee, including telephone and network connections. You gather detailed information about the problem from the office and determine that no other WAN connections are involved.

What is your next troubleshooting step?

A. Implement a solution

B. Identify the affected area
C. Established what has changed
D. Select the most probable cause

**Answer: C**

**Q59.**

A user cannot access files on the network. An examination of the workstation yields the results in the exhibit.

What is the most likely cause of this problem?

A. A virus
B. System file corruption
C. Windows registry problem
D. User changed configuration

**Answer: D**

**Q60.**
What is the worst time to find out that your weekly full backup job didn't complete?

A. While testing your backup system
B. While trying to recover a new piece of software that was just installed on the server
C. When a user requests that you restore a file that was mistakenly deleted the day before
D. When the main server crashes and you need to perform a full system disaster recovery restore

**Answer: D**

**Q61.**
Given:

- A user has a 24-port switch.
- The user wants to use 12 ports for an IP-based network and 12 ports for an IPX-based network.

These two networks will not talk to each other.

What should the user implement on the switch?

A. SNMP
B. VLANs
C. Routing
D. An RMON probe

**Answer: B**

**Q62.**
Your network has a permanent connection to the Internet. Your local network includes multiple services. You are concerned about hackers gaining access from the Internet. You decide to set up filtering on ports 100 through 200.

Which service might this affect?

A. FTP
B. NTP
C. HTTP
D. SMTP

**Answer: B**

**Q63.**
Which three permissions are valid on a Unix/Linux file system? (Choose three)

A. Read (r)
B. Write (w)
C. Change (c)
D. Execute (x)

**Answer: A, B, D**

**Q64.**
What are three characteristics of a public network? (Choose three.)

A. Host IP addresses are visible only on the LAN.
B. IP hosts are directly accessible from the Internet.
C. Network IP addresses are exposed to the Internet.
D. Network IP addresses are not exposed to the Internet
E. Additional network IP addresses must be registered with IANA.

**Answer: B, C, E**

**Q65.**
Which connector should you use in a 10BASE2 environment?

A. SC
B. ST
C. BNC
D. RJ-11
E. RJ-45

**Answer: C**

**Q66.**
Which two application protocols does Network Attached Storage (NAS) use? (Choose two.)

A. NFS
B. EMI
C. ATM
D. SMB
E. HDLC

**Answer: A, D**

**Q67.**
What does a proxy protect?

A. System data
B. External users
C. Personnel costs
D. Hardware from failure

**Answer: A**

**Q68.**
Devices within the same VLAN always belong to the same _____.

A. Switch
B. CSDU/DSU
C. Broadcast domain
D. Windows NT domain

**Answer: C**

**Q69.**
**Exhibit**

```
C:\WINDOWS\"command" ServerX

"command" to ServerX[10.0.0.110]
over a maximum of 30 hops:

1 <10 ms  <10 ms  <10 ms routerA[10.0.0.6]
2 <10 ms  <10 ms  <10 ms routerB[10.0.0.7]
3 <10 ms  <10 ms  <10 ms ServerX[10.0.0.110]


"command" complete
```

Which command's output is displayed in the exhibit?

A. Ping
B. Ping –a
C. Tracert
D. Nbtstat

**Answer: C**

**Q70.**
Your WAN is spread across 15 locations in multiple states. You receive a call from a user who cannot use the local printer. You need to determine the extent of the problem.

Which two questions can be eliminated?

A. Is the problem enterprise-wide?
B. Is the problem easy to duplicate?
C. Is the problem across the WAN?
D. Is the problem isolated to the user's workstation?

**Answer: A, C**

**Q71.**
Which utility should you use to troubleshoot NetBIOS over TCP/IP from Workstation A to Workstation B on a Windows network?

A. Ping
B. Tracert
C. Nbtstat
D. Netstat

**Answer: C**

**Q72.**
Which authentication solution uses tickets in a heterogeneous environment with an authorization server?

A. SSL
B. L2TP
C. IPsec
D. Kerberos

**Answer: D**

**Q73.**
**Exhibit**

Which networking topology is shown?

A. Bus
B. Ring
C. Star
D. Mesh

**Answer: C**

**Q74.**
Which networking topology connects computers via multiple paths?

A. Bus
B. Ring
C. Star
D. Mesh

**Answer: D**

**Q75.**
You want to implement two separate networks. You have only one switch.

What should you do to complete your task?

A. Enable SNMP on the switch
B. Enable SNTP on the switch
C. Implement QoS on the switch
D. Implement VLANs on the switch

**Answer: D**

**Q76.**
Your network utilization spikes and stays at a high level. What is your first troubleshooting step?

A. Isolate the faulty node
B. Verify problem resolution
C. Isolate the faulty cable section

D. Isolate the faulty network segment
E. Isolate the faulty transceiver, transceiver cable, or NIC

**Answer: D**

**Q77.**
**Exhibit.**

After installing a DSL router in your small office/home office network, you lose connectivity to your server. You are able to successfully ping the router. When you issue an `ipconfig` command you notice your workstation's IP address is 192.145.15.10.

What is the cause of this failure?

A. The hub is powered off
B. The Ethernet cable between the hub and the DSL router is bad.
C. The Ethernet cable between the hub and the workstation is bad.
D. The DSL Router is also running DHCP, causing a DHCP conflict.

**Answer: D**

**Q78.**

You have dispatched a technician to a remote site. After talking through multiple troubleshooting sequences, you need to have the technician test the Ethernet NIC. You ask the technician to make a loopback plug.

Which two sets of pins should you connect when creating a hardware loopback plug? (Choose two.)

A. 1 and 2
B. 1 and 3
C. 2 and 5
D. 2 and 6
E. 3 and 4
F. 4 and 6

**Answer: B, D**

**Q79.**
Which TCP/IP port number identifies FTP?

A. 21
B. 23
C. 25
D. 80
E. 110

**Answer: A**

**Q80.**
According to industry standards, at which OSI layer does a switch operate?

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

**Answer: D**

**Q81.**
Which two LAN protocols does Windows 2000 Server natively support?

A. PPP
B. SLIP
C. TCP/IP
D. IPX/SPX
E. NETBIOS

**Answer: C, D**

**Q82.**
Given

- A company is upgrading its existing 10Base-T network to 100BASE-TX for faster performance.
- The company has purchased and installed a 100BASE-TX switch to replace its 10BASE-T switch.
- The NIC in the workstations are auto-negotiating 10/100 cards.
- After the switch installation, no workstation can communicate.
- A laptop plugged directly into any port on the 100Base-TX switch works fine.
- The old 10BASE-T switch is re-installed and all workstations begin to function.

What is the problem?

A. The company is using Category 5 cabling
B. The company is using 10-foot patch cables.
C. The company is using Category 3 patch cables.
D. The total segment length to the workstations from the switch is less than 300 feet.

**Answer: C**

**Q83.**
Which media connector connects a client to a 100Base-FX switch?

A. Coaxial
B. Fiber optic
C. Category 3 UTP
D. Category 5 UTP

**Answer: B**

**Q84.**
Which protocol is used for error reporting in concert with IP?

A. SMTP
B. ICMP
C. RTMP
D. SNMP

**Answer: B**

**Q85.**
How many 64 Kbps channels does a BRI ISDN connection support?

A. 1
B. 2
C. 12
D. 23

**Answer: B**

**Q86.**
Upon which protocol is HTTPS based?

A. SSL
B. IPSec
C. L2TP
D. Kerberos

**Answer: A**

**Q87.**

Which three are true of IP subnets? (Choose three.)

A. An IP router connects two subnetworks.
B. Each subnetwork behaves as if it were independent.
C. Routing between nodes on different subnets is transparent to the users.
D. Nodes on different subnetworks cannot communicate except through the Internet.

**Answer: A, B, C**

**Q88.**
**Exhibit**

Given:

- External Web users coming in from the Internet are complaining of slow connectivity to the Web server.
- Workstation A can connect to the firewall without error.
- Workstation A can connect to the Internet without error.

What is the cause of the problem?

A. A jabbering NIC in the Web server
B. A jabbering NIC in the DNS server
C. A bad cable between Workstation A and the switch

D. A bad cable between Web server and the switch

**Answer: A**

**Q89.**
Which device checks the electrical signals being sent out of a port on a NIC?

A. Tone locator
B. Tone generator
C. Crossover cable
D. Hardware loopback

**Answer: D**

**Q90.**
Given:

- A corporation is adding a new department to its 100BASE-TX network.
- A switch is placed into the wiring closet for the new department.
- A certified drop from the router is plugged into the switch.
- Certified premise wiring is connected into the switch for connection to the wall outlets.

Some users are able to functions correctly, some are not. What is the most likely cause of the problem?

A. The wiring used is Category 5.
B. The jacks used for the wall outlets are RJ-45.
C. The inhouse-made patch cables are only using two pairs.
D. The lengths of the premise wiring cables are shorter than 300 feet.

**Answer: C**

**Q91.**
Which two pieces of information are required when logging on to a Windows NT Server? (Choose two.)

A. Password
B. Username
C. IP address
D. MAC address

**Answer: A, B**

**Q92.**
Which two communications dial-up protocols does Windows 2000 Server natively support?

A. PPP
B. SLIP
C. TCP/IP
D. IPX/SPX
E. NETBIOS

**Answer: A, B**

**Q93.**
Which two connectors could you use with 1000Base-xx Gigabit Ethernet? (Choose two.)

A. ST
B. SC
C. AUI
D. BNC
E. RJ-45

**Answer: B, E**

**Q94.**
Which device connects multiple computers to create a single logical network segment?

A. Hub
B. NIC
C. Router
D. Bridge

**Answer: A**

**Q95.**
What is the goal of disaster recovery?

A. To rebuild the structure area around the server farm
B. To recover all users data/software for all workstations
C. To recover various non-job-related files from users and workstations
D. To recover the pertinent software applications and data to continue business

**Answer: D**

**Q96.**
**Exhibit**

```
Windows 98 IP Configuration

    Host Name ........................:Client1.IDW
    DNS Servers ......................:
    Node Type ........................:Broadcast
    NetBIOS Scope ID .................:
    IP Routing Enabled ...............:No
    WINS Proxy Enabled ...............:No
    NetBIOS Resolution uses DNS .....:No

1 Ethernet adapter:

    Description ......................:3Com Etherlink PCI
    Physical Address .................:00-B0-D0-5A-56-EA
    DHCP Enabled .....................:Yes
    IP Address .......................:10.0.0.130
    Subnet Mask ......................:255.255.255.0
    Default Gateway ..................:
    DHCP Server ......................:10.0.0.110
    Primary WINS Server ..............:
    Secondary WINS Server ............:
```

Which command's output is displayed in the exhibit?

A. Ipconfig
B. Ipconfig/all

C. Ipconfig/renew
D. Ipconfig/release

**Answer: B**

**Q97.**
A remote user is having difficulties dialing in the network from a hotel room. The user unplugged the cable from the phone and plugged it into the modem. There is no dial tone.

What is the problem?

A. The dial-up server is not responding.
B. The modem does not support digital phone lines.
C. The modem protocols are not configured properly.
D. The dial-up connection protocols are not configured properly.

**Answer: B**

**Q98.**
**Exhibit:**

Given:

- External Web users coming in from the Internet are complaining of intermittent connectivity to the Web Server.
- Workstation A can connect to the Web server without error.
- Workstation A can connect to the firewall without error.
- Workstation A is experiencing intermittent connectivity to the Internet.

What is the cause of the problem?

A. High utilization on the router
B. High utilization on the Web server.
C. A bad cable between Workstation A and the switch.
D. A bad cable between the Web server and the switch.

**Answer: A**

**Q99.**
Which type of network uses network addresses assigned by the IANA?

A. POTS network
B. Public network
C. ARCNet network
D. Private network

**Answer: B**

**Q100.**
What is the copper cable requirement for 100BaseT?

A. RG-58 Coax
B. RG-62 Coax
C. Category 3 UTP
D. Category 5 UTP
E. Telephone Twisted pair (TTP)

**Answer: D**

**Q101.**
What should you configure to allow nodes on one local network to communicate with nodes on another network?

A. WINS
B. DHCP
C. ARP Cache
D. Default gateway

**Answer: D**

**Q102.**
**Exhibit**

```
C:\WINDOWS>"command" 10.0.0.131

"command" 10.0.0.131 with 32 bytes of data:

Reply from 10.0.0.0.131:bytes=32 time<10ms TTL=120
Reply from 10.0.0.0.131:bytes=32 time<10ms TTL=120
Reply from 10.0.0.0.131:bytes=32 time<10ms TTL=120
Reply from 10.0.0.0.131:bytes=32 time<10ms TTL=120

"command" statistics for 10.0.0.131:
   Packets Sents = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Which command's output is displayed in the exhibit?

A. Ping
B. Tracert
C. Nbstat
D. Traceroute

**Answer: A**

**Q103.**
A client has lost network connectivity in a large multiring environment. What is your first troubleshooting step?

A. Isolate the ring
B. Restore the ring
C. Remove the failing section
D. Repair the defective component

**Answer: A**

**Q104.**
How many pair of wires does a 10Base-T cable use?

A. One
B. Two
C. Three
D. Four

**Answer: B**

**Q105.**
Which two network devices pass data based solely on the MAC address? (Choose two.)

A. Hub
B. Router
C. Bridge
D. Layer2 switch
E. Managed hub

**Answer: C, D**

**Q106.**
Which transmission medium does a vampire tap connect clients to?

A. UTP
B. STP
C. Fiber optic
D. Coaxial cable

**Answer: D**

**Q107.**
Which dial-up protocol is capable of passing multiple LAN protocols across the wire?

A. PPP
B. SLIP
C. POTS
D. TCP/IP

**Answer: A**

**Q108.**
What is the transmission rate of a BRI ISDN circuit switched B channel?

A. 44 Kbps
B. 56 Kbps
C. 64 Kbps
D. 128 Kbps

**Answer: C**

**Q109.**
A new MAU is added to increase capacity. Users are not able to connect to the LAN. The network analyzer shows connectivity from the NICs to the RJ-45 plugged into the MAU.

What is the most likely cause?

A. MAU is set at full duplex
B. CSU/DSU is disconnected
C. The ring in and ring out are misconfigured between MAUs.
D. The ring in of one MAU is connected to a ring out of other MAU.

**Answer: C**

**Q110.**
A new workstation cannot connect to the network. You verify that TCP/IP is installed correctly. The user uses a static IP address in the correct range for the segment and the subnet mask is correct.

Why is the user not able to connect to the network?

A. The DHCP server is down.
B. The static IP address is a duplicate to one already in use.
C. A static IP address cannot be used on a network using DHCP.
D. The user does not have permissions to add a static IP address.

**Answer: B**

**Q111.**
You have implemented a permanent connection to the Internet for your home network that consists of three workstations. You are concerned about the threat of hackers gaining access from the Internet. You have set up filtering on your DSL router.

You are new unable to access Internet sites by their Domain Names, though you can access them by their IP addresses.

What is the most likely cause of the problem?

A. Your DSL router is blocking port 21.
B. Your DSL router is blocking port 53.
C. Your DSL router is not logged in to the ISP.
D. You do not have IP configured on your clients.

**Answer: B**

**Q112.**
You are asked to implement a solution that provides for security authentication and encryption to a private network for a client machine. The client machine needs to connect to a NetWare server inside the private network.

Which two protocols should implement to provide this functionality? (Choose two.)

A. SMTP

B. TFTP
C. PPTP
D. SNMP
E. TCP/IP

**Answer: C, E**

**Q113.**
Devices on a Token Ring network need to access files on a server in an AppleTalk network. Which device connects the two networks?

A. Hub
B. Bridge
C. Switch
D. Gateway

**Answer: D**

**Q114.**
Network A is IP network 192.168.100.0/24. What is a valid IP address for a computer located on network A?

A. 192.168.1.1
B. 192.167.100.10
C. 192.168.100.254
D. 192.168.100.255

**Answer: C**

**Q115.**
Which three basic technologies are used with firewalls? (Choose three.)

A. Proxy servers
B. Packet filtering
C. Dynamic routing
D. Network Address Translation

**Answer: A, B, D**

**Q116.**
The only Macintosh computer on your network is unable to print to a network print device. This computer does not have problems connecting to any of the other printers on your network. You reset the printing device. Windows users have no problem printing to the device.

What should you do next?

A. Replace the printing device.
B. Verify the printer connection to the printing device.
C. Plug the Macintosh network cable in to a different port on the hub.
D. Ensure that AppleTalk is an installed protocol on the printing device.

**Answer: D**

**Q117.**
While setting up a new computer on the local subnet, you get the following Windows NT error message:

"Your default gateway does not belong to one of the configured interfaces."

What should you do next?

A. Run ftp
B. Run ping
C. Run nbstat
D. Run tracert
E. Run ipconfig

**Answer: E**

**Q118.**
Which protocol links addresses to physical addresses in AppleTalk?

A. AFP

B. ASP
C. AARP
D. ARAP

**Answer: C**

**Q119.**
Which function does a default gateway provide?

A. Assigns an IP address to a client workstation.
B. Provides address translation of an IP address to a host name.
C. Provides a route for packets with destinations outside the local subnet.
D. Provides a pointer to the home server address for the client workstation.

**Answer: C**.

**Q120.**
Which three methods implement disaster recovery? (Choose three.)

A. Tape backup
B. Mirrored servers
C. A remote hot site
D. Off-site data archive
E. Uninterruptible power supply

**Answer: A, C, D**

**Q121.**
**Exhibit**

In the network shown in the exhibit, Workstation B was moved to a new location on the same segment as Workstation C, and is no longer able to communicate on the network. Configurations on Workstation B are correct, and no other users have reported problems.

What is the most likely cause of this problem?

A. Hub B
B. Hub C
C. Bridge
D. Router B
E. Patch cable

**Answer: E**

**Q122.**
Which device directs the data packet to all hosts on the LAN segment?

A. Hub
B. Router
C. Switch
D. Gateway

**Answer: A**

**Q123.**
Which protocol uses names as addresses?

A. IP
B. IPX
C. TCP
D. SPX
E. NetBEUI

**Answer: E**

**Q124.**
Which protocol defines its address scheme using network classes?

A. TCP/IP
B. IPX/SPX
C. NetBEUI
D. AppleTalk

**Answer: A**

**Q125.**
What OSI layer 4 protocol does Telnet use?

A. TCP
B. UDP
C. ICMP
D. HTTP

**Answer: A**

**Q126.**
A small company (A) recently merged with a large company (B). Company A used static name resolution. The servers from company A were moved to company B's server farm and readressed. Company B uses DNS to provide name resolution. Users at company A can reach other servers in the server farm but cannot reach the servers that were moved.

What should you do to correct the problem?

A. Delete the HOSTS file
B. Correct the LMHOSTS file
C. Correct the NETWORKS file
D. Create the static NETSTAT entries.

**Answer: A**

**Q127.**
A user calls the help desk after dialing into the RAS server. The user is unable to connect to the Internet with a Windows Laptop. The user is able to log in to the server running IPX/SPX. The IP address is 0.0.0.0.

What is the most likely problem?

A. The DNS server is down.
B. The DHCP server is down.
C. The NetBIOS over TCP/IP has been disconnected.
D. The workstation has become unplugged from the network.

**Answer: B**

**Q128.**
You are connecting an Apple workstation to a NetWare 4.11 server. The workstation is unable to connect to the server, but it is able to connect to the Internet.

Which two are possible problems? (Choose two.)

A. The server is not running NetBEUI
B. The server is not running AppleTalk
C. The workstation is not running IPX/SPX
D. The workstation is not running NetBEUI
E. The workstation is not running the Microsoft Client for NetWare Networks.

**Answer: B, C**

**Q129.**
A client machine needs to communicate with a NetWare 3.11 server and a UNIX system. Which two protocols should you implement?

A. SNA
B. TCP/IP
C. IPX/SPX
D. NetBEUI
E. Banyan VINES

**Answer: B, C**

**Q130.**
Given:

- Network B is IP network 172.17.0.0/16
- The IP address of the router for Network B is 172.17.0.1.

What is the subnet mask for a computer attached to network B?

A. 127.0.0.1
B. 172.17.0.0
C. 172.17.0.1
D. 255.255.0.0
E. 255.255.255.0

**Answer: D**

**Q131.**
Which cable type is most susceptible to cross-talk?

A. UTP
B. STP
C. Coaxial
D. Fiber optic

**Answer: A**

**Q132.**
Which two benefits does starting Samba on a UNIX/LINUX server provide? (Choose two)

A. Web access
B. Telnet access
C. The server access
D. Print server access

**Answer: C, D**

**Q133.**
What is the primary purpose of a proxy server?

A. It protects the Internet from internal network traffic.
B. It acts as a file on a router that lists which addresses can go where.
C. It acts as an intermediary that recreates the packets and services of the communication that is trying to get through.
D. It acts as a type of firewall that manages packet sequence and origin to reduce the chance of hackers hijacking communication sessions.

**Answer: D**

**Q134.**
You have installed WINS on your server and want to verify that names are resolved via WINS. Which command should you issue?

A. arp –r
B. nbsstat –r
C. nbtstat –r
D. nslookup –r

**Answer: C**

**Q135.**

Which network device provides public to private network security and may also use Network Address Translation (NAT)?

A. Hub
B. Bridge
C. Switch
D. Firewall

**Answer: D**

**Q136.**
You are troubleshooting at Workstation B. You suspect that there is a TCP session connected from Workstation A.

Which command should you issue at Workstation B to see if there is an established TCP connection?

A. Netstat
B. Ipconfig /all
C. Ping Workstation A
D. Nslookup Workstation A

**Answer: A**

**Q137.**
Given

- A TCP/IP network environment with multiple subnets.
- A user connects to a Windows NT server named CORPSERV on its local subnet.
- WINS is NOT in use

A user is moved to another subnet. The user is now unable to login to CORPSERV. What is the problem?

A. A HOSTS file needs to be configured
B. A LMHOSTS file needs to be configured
C. A SERVICES file needs to be configured
D. A PROTOCOL file needs to be configured

**Answer: A**

**Q138.**
Given

- Network B is IP network 172.17.0.0/16
- The IP address of the router for network B is 172.17.0.1.

What is the default gateway for a computer attached to network B?

A. 127.0.0.1
B. 172.17.0.0
C. 172.17.0.1
D. 255.255.0.0
E. 255.255.255.0

**Answer: C**

**Q139.**
Which four permissions types are available in a Windows NT environment? (Choose four.)

A. List
B. Read
C. Write
D. Modify
E. Change

**Answer: A, B, C, D**

**Q140.**
Which LAN network access security does Windows 2000 Server use?

A. SSL
B. L2TP
C. IPsec
D. Kerberos

**Answer: D**

**Q141.**
Which medium connects a client to a 100Base-T switch?

A. Coaxial
B. Fiber optic
C. Category 3 UTP
D. Category 5 UTP

**Answer: D**

**Q142.**
Which networking topology is the easiest to reconfigure?

A. Bus
B. Ring
C. Star
D. Mesh

**Answer: C**

**Q143.**
Which IEEE 802.x standard describes the Physical layer for networks that use a ring topology?

A. 802.1
B. 802.2
C. 802.3
D. 802.4
E. 802.5

**Answer: E**

**Q144.**
What is the maximum segment length of a 1000Base-T segment?

A. 100 meters
B. 325 meters
C. 550 meters
D. 3 kilometers

**Answer: A**

**Q145.**
Which is a valid MAC address?

A. 0x0000007B
B. 51:50:VH:OU:81:2
C. 00:B0:D0:5A:E1:B5
D. 0103FBA1:00000001

**Answer: C**

**Q146.**
What does the last three octets in 00 B0 D0 5A E1 B5 Identify?

A. The device ID
B. The type of device
C. The manufacturer of the device
D. The network address of the device
E. The manufacture data of the device

**Answer: A**

**Q147.**
You have replaced a NIC in a workstation connected to a Token Ring network, but the workstation cannot communicate with the server. What is the most likely cause of this problem?

A. The NIC has the wrong IP address

B. The NIC is set for the wrong speed.
C. The NIC is plugged into the wrong slot.
D. The NIC does not have enough memory.
E. The user does not have access to the server.

**Answer: B**

**Q148.**
A network administrator plans on adding DNS to the network and moving server resources to a new server farm with new addresses. Prior to this addition, HOSTS files are used to get to resources by host name.

Which statement is true?

A. Users will be able to connect if a DNS server is added to the affected network segments.
B. Users will be able to connect if a WINS server is added to the affected network segments.
C. Users will be able to connect if a DNS is enabled on the server and the HOSTS file is deleted.
D. Users will be able to connect if a DNS is enabled on the workstation and the HOSTS file is deleted.

**Answer: C**

**Q149.**
Given:

- Network A is IP network 192.168.1.0/24
- Network B is IP network 192.168.2.0/24
- One router connects network A to network B correctly, using IP only
- Both networks use many types of machines, including Windows NT machines, Linux machines, and NetWare servers.

Every computer needs to be able to see every other computer using host names. Which two protocols should you install? (Choose two.)

A. DNS
B. WINS
C. SNMP

D. TCP/IP
E. IPX/SPX

**Answer: A, D**

**Q150.**
Which three media and connectors do 10Base2 networks use? (Choose three.)
A. UTP cable
B. STP cable
C. RG-58 cable
D. T-connectors
E. BNC Terminators
F. RJ-11 connectors

**Answer: C, D, E**

**Q151.**
Which fiber connector uses a twist-type attachment mechanism?

A. FC
B. ST
C. SC
D. MT-RJ

**Answer: B**

**Q152.**
A technician added a MAU and workstations to an existing office. Users connected to the new MAU can communicate with each other but not with users on the original MAU. What should you instruct the field technician to check next?

A. Connect a single cable to port 1 on each MAU.
B. Connect the uplink ports to each other on the MAU.
C. Connect the ring in port to the ring out port on each MAU.
D. Connect the ring in port to the ring in port and ring out port to ring out port in each MAU.

**Answer: C**

**Q153.**
Which network transmission medium is limited to 10 megabits per second (Mbps) and can support cable segments up to a maximum distance of 185 meters (607 feet)?

A. 10Base2
B. 10Base5
C. 10Base-F
D. 10Base-T
E. 10Base36

**Answer: A**

**Q154.**
You have 300 users that all access the Internet through a T1 link. Typically, the majority of the users access the same Web sites. Which Internet technology could you implement to improve the performance of their Web surfing?

A. IP Proxy
B. HTTP Proxy
C. WINS Proxy
D. FTP Proxy

**Answer: B**

**Q155.**
What layer of the OSI model ensures packets are delivered error free, in sequence, and without losses?

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

**Answer: B**

**Q156.**
What are the most common IEEE standards? (Choose three)

A. 802.2
B. 802.3
C. 802.4
D. 802.5

**Answer: A, B, D**

**Q157.**
You have several LANs in your organization. Which three protocols might you use on these LANs to enable LAN to LAN communication? (Choose three.)

A. IPX/SPX
B. PPP
C. LAT
D. TCP/IP
E. NetBEUI
F. AppleTalk

**Answer: A, D, F**

**Q158.**
You are configuring a workstation to use dial-up networking by installing an ISA internal modem operating on COM2 using standard settings. You are unable to initialize the modem. What is the most likely cause of this problem?

A. Conflict with IRQ3.
B. Conflict with IRQ4.
C. Incorrect IP addressing.
D. Incorrect IPX addressing.

**Answer: A**

**Q159.**
What layer of the OSI model does a bridge operate under?

A. Session
B. Data Link
C. Transport
D. Network

**Answer: B**

**Q160.**
Which of the following is true of user level security?

A. It has less permissions than share level security
B. Permissions are assigned to resources
C. It is centrally administrated

**Answer: C**

**Q161.**
What OSI model transport layer connection type is used by UDP?

A. Connection-oriented
B. Connectionless
C. Token transport
D. Packet transport

**Answer: B**

**Q162.**
A user complains of slow access to a server. What utility can you use to find the bottleneck?

A. PING
B. TELNET
C. TRACERT
D. NBTSTAT

**Answer: C**

**Q163.**
On a TCP/IP network, each computer that is assigned a network ID is called a _____?

A. Name server
B. Workstation
C. Server
D. Host

**Answer: D**

**Q164.**
You want to connect your network to the Internet but are concerned that users will download viruses. What can you do to protect the systems?

A. Install virus protection on each workstation
B. Install a network virus protection suite
C. Install a firewall
D. Install a proxy

**Answer: B**

**Q165.**
Which router on your segment is sent all the packets destined for the remote network?

A. Bridge
B. Switch
C. Default Gateway (or could say router)

**Answer: C**

**Q166.**

Which of the following uses TDM (Time Division Multiplexing)?

A. Broadband
B. Baseband
C. Wideband

**Answer: B**

**Q167.**
Octet Inc. has 410 users connected with Cat3 cabling in a star configuration using 10BaseT cabling.

Required Results:
- Add 60 more users to the existing network
- Increase the speed of the network from 10Mbps to 100Mbps

Optional Results:
- Increase the speed of operations on the application server.
- Allow the clients to connect to the server quicker.

Proposed Solution:
- Put 100mbps cards in the 100 new machines and add them to the network.
- Replace the existing NICs in the clients and the server with 100mbps cards.
- Add more RAM to the server.
- Change the protocol binding order on the clients to put the most used protocol at the top.

A. The solution meets the required results and both optional results.
B. The solution meets the required results and one optional result.
C. The solution meets the required results and no optional results.
D. The solution does not meet the required results.

**Answer: D**

**Q168.**
What does IP use for host name resolution?

A. SAP
B. NDS
C. DNS

D. WINS

**Answer: C**

**Q169.**
Which two are good password practices? (Choose two.)

A. Keep passwords indefinitely.
B. Change passwords every 90 days.
C. Maintain minimum password length.
D. Use only alphanumeric symbols in passwords.

**Answer: B and C**

**Q170.**
Which character signifies the start of a comment line in a HOSTS file?

A. ;
B. ~
C. //
D. $
E. #
F. %

**Answer: E**

**Q171.**
Which of the following are three advantages of PSTN (POTS)? (Choose three.)

A. PSTN is readily available.
B. PSTN is easy to configure.
C. PSTN is the least expense implementation.
D. PSTN supports data rates greater than 65 kbps.

**Answer: A, B, C**

**Q172.**
You have just installed a 10BaseT NIC into a Windows 95 workstation and you are trying to configure it on an Ethernet network. After configuring the IRQ and I/O base address properly, what else must you do?

A. Install network client software.
B. Connect the cable to the MAU.
C. Connect the cable to the network card.
D. Install the terminator at the network card.

**Answer: A and C**

**Q173.**
What name resolution system can be used across different common network platforms?

A. DHCP
B. NetBIOS
C. DNS
D. WINS

**Answer: C**

**Q174.**
What is one disadvantage of using a bus topology on a 100 user network?

A. Prone to cable faults
B. Requires expensive cabling
C. You have to terminate each node

**Answer: A**

**Q175.**
On a network that uses the TCP/IP protocol each device that has a logical IP address is known as a _____?

A. Peer
B. Host
C. Server
D. Client
E. Station

**Answer: B**

**Q176.**
Which OSI level handles networking functionality?

A. Network
B. Application
C. Functionality
D. Physical

**Answer: D**

**Q177.**
Maria, who works in the finance department, calls you and states that she cannot print to the network printer. She is member of a group who has the correct permissions to print. However, all other users of the same group can print to the printer. What is the problem?

A. Her user access permissions are set wrong
B. Her printer domain is set wrong
C. Her share access is set wrong

**Answer: A**

**Q178.**
Two pair of CAT 5 cables are implemented in which Ethernet type?

A. Fiber Optic
B. UTP
C. 10Base2
D. 100BaseTX

**Answer: D**

**Q179.**
Which of the following are connectionless protocols? (Choose two)

A. TFTP
B. FTP
C. NetBEUI
D. HTTP

**Answer: A, C**

**Q180.**
What layer of the OSI model places the signal on the cable?

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

**Answer: A**

**Q181.**
A user complains of slowness accessing a web page on the intranet. What utility can you use to find the bottleneck?

A. TELNET
B. PING
C. TRACERT
D. NBTSTAT

**Answer: C**

**Q182.**
What must you have on your workstation to perform a full suite of network card diagnostics?

A. External MAU loopback
B. Internal MAU loopback
C. Internal Loopback tester
D. External Loopback

**Answer: D**

**Q183.**
A UNIX server on the Internet is configured to host a web site and an FTP site. How will the server know what service incoming packets are intended for?

A. Protocol ID
B. Port number
C. Host header
D. TCP address

**Answer: B**

**Q184.**
Which 100 Mbps networking standard uses only two pairs of a Category 5 UTP cable?

A. 10BaseT
B. 100BaseT4
C. 100BaseTX
D. 100BaseVG

**Answer: C**

**Q185.**
Which two protocols can be routed? (Choose two.)

A. IP
B. IPX

www.real-exams.com
ITCertifyHome.com

C. TCP
D. NetBEUI
E. NetBIOS

**Answer: A, B**

**Q186.**
Which statement about user level security is true?

A. The user of each machine can decide which resources from the machine are made available to other users on the network.
B. The network administrator can decide which resources are made available to other users on the network.
C. The user of each machine can decide which resources from the network server are made available to other users on the network.
D. The network administrator can decide which resources are made available to other users outside the network.

**Answer: B**

**Q187.**
Which transport layer protocol can be validated by successfully using FTP?

A. IP
B. TCP
C. UDP
D. ICMP

**Answer: B**

**Q188.**
You are installing a NetWare based server system. You have 10 Windows 95 workstations and 4 Unix workstations. What do you install on the Windows 95 systems that will allow you to connect to the NetWare server? (Choose two)

A. Novell Client for Microsoft Windows systems
B. Novell Client for Windows

C. Microsoft Client for Novell NetWare
D. Novell install suite

**Answer: B and C**

**Q189.**
You are servicing a workstation that will not connect to the network. You notice that the link light on the NIC does not illuminate. You replace the workstation patch cable and are still unable to log on to the network. You move the network patch cable to a different port at the wiring closet hub and the link light is now illuminated. What should you do next?

A. Replace the NIC.
B. Replace the NIC driver.
C. Attempt to connect and transfer a file.
D. Document the problem and solution.

**Answer: C**

**Q190.**
You need to connect three network segments where one segment is using TCP/IP and NetBEUI, and the other two segments use NetBEUI alone. Which hardware device should you use?

A. Hub
B. Router
C. Gateway
D. Brouter

**Answer: D**

**Q191.**
You have installed a PCI 100BaseT network card into a Windows 95 workstation. The workstation cannot see any of the other computers on the network. All other workstations on the network are operating normally. You have examined the configuration settings of the network card. The patch cable has passed all tests, but the workstation still cannot see the network. What additional troubleshooting method would now be useful?

A. Internal MAU loopback
B. External MAU loopback
C. Internal hardware loopback
D. External hardware loopback

**Answer: D**

**Q192.**
Which of the following uses FDM (Frequency Division Multiplexing)?

A. Broadband
B. Baseband
C. Wideband

**Answer: A**

**Q193.**
Computers are rebooting spontaneously. The room is cold and there are space heaters in use. What is the problem?

A. Bad NICs
B. BAD UPS
C. Bad wiring
D. Voltage drop at the outlet

**Answer: D**

**Q194.**
You want to check your local TCP/IP connection. How? (Choose two)

A. Ping host
B. Ping localhost
C. Ping 127.0.0.1
D. Ping 127.0.0.0
E. Ping local

**Answer: B, C**

**Q195.**
What three things do you need to specify on a workstation for DNS resolution?

A. Domain name
B. Host name
C. NetBIOS name
D. IP address of the DNS server

**Answer: A, B, D**

**Q196.**
What utility do you use to check your IP configuration on a Windows 95/98 workstation?

A. NETSTAT
B. PING
C. WINIPCFG
D. IPCONFIG

**Answer: C**

**Q197.**
What is used to resolve a host name on a UNIX server?

A. IPX
B. HOSTS
C. LMHOSTS
D. ARP

**Answer: B**

**Q198.**
Which command displays the per protocol statistics? (Be careful to distinguish between upper and lower case characters.)

A. Arp –s
B. Arp –S
C. Nbstat –s
D. Nbstat –S
E. Netstat-s
F. Netstat-S

**Answer: E, F**

**Q199.**

In the configuration shown in the exhibit, the link lights on the interface A of the router and interface B of the hub are not lit. All other link lights are lit. Which component is LEAST likely to have failed?

A. Hub
B. Modem
C. Router
D. Patch card

**Answer: B**

**Q200.**
Which hub type boosts signal strength?

A. Passive
B. Hybrid
C. Token
D. Active

**Answer: D**

**Q201.**
Which three connectors can be used with external SCSI interfaces? (Choose three.)

A. DB-25 Female
B. Centronics-36
C. Centronics-50
D. High density 68-pin
E. DB-9 Male
F. RJ-11

**Answer: A, C, D**

**Q202.**
Your company is moving into a new building. The cabling company has labeled all 10BaseT jacks for the workstation. However, when you plug in a workstation to a jack and plug the patch cable from the patch panel to the hub, you do not get a link light on the NIC or the hub. You have tried to replace both patch cables with known, good patch cables. It still does not work. What should you do next?

A. Hook a protocol analyzer to the hub.
B. Reinstall the network interface card driver.
C. Test the cable from wall jack to patch panel.
D. Replace the workstation patch cable with a crossover cable.

**Answer: C**

**Q203.**
Which of these protocols is not routable?

A. IPX
B. TCP
C. NetBEUI
D. DECnet

**Answer: C**

**Q204.**
What network utility is the following printout from?

| Internet Address | Physical Address | Type |
|---|---|---|
| 10.36.14.92 | 00-60-08-75-43-d7 | static |
| 197.45.367.42 | 20-53-32-45-00-00 | dynamic |
| 123.34.34.34 | 20-53-54-67-00-00 | dynamic |

A. NETSTAT
B. NBTSTAT
C. ARP
D. Ipconfig

**Answer: C**

**Q205.**
Which TCP/IP utility produces the following sample output?

| | | | | |
|---|---|---|---|---|
| 1 | 2 ms | 2 ms | 2 ms | 38.162.130.33 |
| 2 | 94 ms | 94 ms | 94 ms | 38.162.130.9 |
| 3 | 97 ms | 96 ms | 102 ms | 38.162.105.1 |
| 4 | 102 ms | 100 Ms | 100 Ms | 38.21.15.1 |
| 5 | 241 ms | 119 ms | 145 ms | 38.1.41.2 |
| 6 | 212 ms | 216 ms | 147 ms | 38.1.21.33 |
| 7 | 163 ms | 147 ms | 139 ms | 38.1.4.38 |
| 8 | 167 ms | 156 ms | 161 ms | mae-east.inap.net [192.41.177.155] |
| 9 | * | 266 ms | 304 ms | NC hicago2- co reO. nap.n et [207.112.247.173] |

```
10 *        288 ms     303 ms     sni-aactt.starnetinc.com [204.178.185.108]
11 347 ms 461 ms     447 ms     sni-aactt.starnetinc.com [204.178.185.108]
12 405 ms 319 ms     272 ms     a a ctt- gw.starnetinc.com [206.138.88.1]
13 304 ms 338 ms*    www.comptia.org [206.138.86.2]
14 369 ms 590 ms326 mswww.comptia.org [206.138.86.2]
```

A. PING
B. NETSTAT
C. NBTSTAT
D. TRACERT

**Answer: D**

**Q206.**
What can be used to transfer a file from a UNIX server to yours?

A. Telnet
B. Netstat
C. FTP
D. NBTSTAT

**Answer: C**

**Q207.**
Which two Internet protocols can work with application layer proxies? (Choose two.)

A. FTP
B. HTTP
C. PPTP
D. SMTP
E. POP3
F. Telnet

**Answer: A, B**

**Q208.**
You want to enable WINS on a Windows 9x machine. From the Network Properties dialog, you have selected TCP/IP and clicked the Properties button.

What should you do next?

A. Click the enable WINS resolution button
B. Click "specify name resolution," type WINS
C. Click DNS configuration, click the enable WINS resolution button
D. Click WINS configuration, click the enable WINS resolution button

**Answer: D**

**Q209.**

The customer reports loss of Internet connectivity from all workstations. Tech Support can ping the router but cannot Telnet into it. ICMP port is not open in the router. Which two steps would be useful in troubleshooting this problem? (Choose two.)

A. Restart the router.
B. Replace patch cord C.
C. Replace patch cord A.
D. Replace patch cord B
E. Restart the cable modem.

**Answer: A, B**

**Q210.**
A user cannot access an application on a server. Other users can access the application. You ask the user to access another application on the same server, and the user is able to access the other application. What is your next to resolve the problem?

A. Reboot the server
B. Reboot the workstation
C. Check the user's password
D. Check the user's access procedures
E. Ask the user to access the problem application from another workstation

**Answer: E**

**Q211.**
What is one security function of a firewall?

A. Allows people on the Internet to see just one IP address
B. Does not allow any connections to the server
C. Manages password functions
D. Restricts unauthorized users from accessing sensitive data

**Answer: D**

**Q212.**
You set up a dialup network using the SLIP protocol. You cannot transfer files with FTP and have problems connecting to the Internet. What is a possible alternative?

A. Install a proxy with TCP/IP
B. Try pinging the FTP server
C. Try pinging the local host
D. Change to PPP

**Answer: D**

**Q213.**
On an NT4 system what command do you use to determine what the workstation's IP address is?

A. IP
B. WINIPCONFIG
C. IPCONFIG
D. IPSTAT

**Answer: C**

**Q214.**
Which TCP/IP protocol does a UNIX server use to send e-mail to another UNIX server?

A. POP3
B. SNMP
C. SMTP
D. FTP

**Answer: C**

**Q215.**
E-mail and FTP services work at which OSI layer?

A. Presentation
B. Session
C. Application

**Answer: C**

**Q216.**
You can access your Web server by its IP but not by its host name. What type of problem could be present?

A. WINS
B. LMHOSTS
C. DNS

**Answer: C**

**Q217.**
What is the default port for the HTTP protocol?

A. 21
B. 25
C. 80
D. 110

**Answer: C**

**Q218.**
Which of the following are connectionless? (Select two)

A. TFTP
B. NetBEUI
C. FTP
D. HTTP

**Answer: A, B**

**Q219.**
Which two are used with digital signatures? (Choose two.)

A. EncryptAPI
B. Certificate authority
C. Asymmetric algorithm
D. Complete data encryption

**Answer: B, C**

**Q220.**

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Prior to any new network implementation, which two procedures need to be implemented? (Choose two.)

A. Compile documentation
B. Disable network logins
C. Implement network load balancing
D. Determine needs and expectations

**Answer: A, D**

**Q221.**
Routers operate at the _____?

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

**Answer: B**

**Q222.**
Which device operates in the Network layer and the Data Link layer?

A. Router
B. Brouter
C. NIC
D. Bridge

**Answer: B**

**Q223.**
Which two terms are synonymous? (Choose two.)

A. ROM
B. RAM
C. Firmware
D. Freeware

E. Hard drive space

**Answer: A, C**

**Q224.**
What should you use to inhibit the spread of viruses on your peer-to-peer network?

A. Firewall
B. Scandisk utility
C. Tape backup drive
D. Workstation protection program

**Answer: D**

**Q225.**
What device can translate between dissimilar network protocols?

A. Gateway
B. Router
C. Bridge

**Answer: A**

**Q226.**
What device translates protocols?

A. Router
B. Gateway
C. Bridge

**Answer: B**

**Q227.**
An employee is complaining that when he turns his lights on in the office, he can't connect to the network. With the light off his system works fine. What could be the problem?

A. There is a voltage drop when the lights are turned on
B. The NIC needs to be replaced
C. The cabling system is faulty
D. All of the above

**Answer: C**

**Q228.**
You have many users who access the Internet. You are worried about security. What can you use so that only one IP is visible when users connect to the Internet?

A. FTP
B. HTTP
C. Proxy Server
D. NBT Server

**Answer: C**

**Q229.**
You cannot connect to a network server. The light in the back of the NIC is not flashing. You change the patch cable and it is still not flashing. You go into the wiring closet and switch the connector from one connection on the hub to another. You check the NIC light and it is blinking. What should you do next?

A. Replace the NIC
B. Replace the HUB
C. Log in and try to transfer a file
D. Replace the cable

**Answer: C**

**Q230.**
What can convert media types?

A. Transceiver
B. Hub
C. Gateway
D. Switching Hub

**Answer: C**

**Q231.**
A firewall protects an internal private network from the Internet by filtering TCP/IP traffic based upon which three parts of a TCP/IP packet? (Choose three.)

A. Port number
B. DNS lookup order
C. Source IP address
D. IPX network number
E. Destination IP address
F. WINS server NetBIOS name

**Answer: A, C, E**

**Q232.**
You are the network administrator for a network with 10 stations. One workstation experiences problems communicating with the server. The workstation can communicate properly during daylight hours, when the room lights are off. You have noticed, however, that at night, when the lights are on, the workstation experiences this problem. What could cause this problem?

A. A bad port on the hub
B. Voltage drop in the cable
C. Improperly installed cabling
D. User's password has expired

**Answer: C**

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**Q233.**
A user is having problems accessing the local Intranet web site. How should you determine if the problem is related to this user's workstation only?

A. Run WINIPCFG.
B. Try accessing the Intranet from another workstation.
C. Try to PING the Intranet from the user's workstation.
D. Run TRACERT to the InterNIC from the user's workstation.

**Answer: B**

**Q234.**
What is the default port for the FTP protocol?

A. 21
B. 22
C. 23
D. 25

**Answer: A**

**Q235.**
What network topology is most fault tolerant and has the most redundancy?

A. BUS
B. RING
C. STAR
D. MESH

**Answer: D**

**Q236.**
What multiport device connects network segments and allows full bandwidth on all ports?

A. Repeater

B. Hub
C. Switch
D. MAU

**Answer: C**

**Q237.**
Which IP Address is a Class B address?

A. 127.26.36.85
B. 211.39.87.100
C. 89.156.253.10
D. 191.123.59.5
E. 199.236.35.12

**Answer: D**

**Q238.**
At which layer of the OSI model does the UDP reside?

A. Session
B. Network
C. Physical
D. Transport
E. Data-link
F. Application
G. Presentation

**Answer: D**

**Q239.**
On IP networks, what is the term that refers to any device with a logical address?

A. Host
B. Peer
C. Client
D. Server

**Answer: A**

**Q240.**
IEEE 802.5 maps to

A. Voice data transmissions
B. Token bus
C. Ethernet
D. Token Ring

**Answer: D**

**Q241.**
What is the directory service called in Netware 4.xx?

A. SPX
B. IPX
C. DFS
D. NDS

**Answer: D**

**Q242.**
You install a new virus suite in your network of 120 computers. In the same afternoon, you configure RAID on one system. You are experiencing system crashes throughout your network. What can you do to correct the problem?

A. Get the newest virus update from the vendor
B. Disable the RAID system
C. Check the virus vendor for system patches or service packs
D. Uninstall the virus suite

**Answer: C**

**Q243.**
What must you have on your workstation to implement a full suite of network card diagnostics?

A. Router
B. Hardware loop
C. Protocol analyzer
D. Additional NIC

**Answer: B**

**Q244.**
How can you connect with a Unix server using terminal emulation software?

A. FTP
B. Telnet
C. Internet Explorer
D. Netscape

**Answer: B**

**Q245.**
You have an email server using SMTP. You want to check that it is accepting requests on port 25, What can you use?

A. Ping the email server
B. Telnet
C. NETSTAT
D. NBTSTAT

**Answer: B**

**Q246.**
Which backup method can you combine with differential backup?

A. Full backup
B. Incremental backup

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C. Decremental backup
D. Comparative backup

**Answer: A**

**Q247.**
You are troubleshooting a workstation that can't communicate with the server. You have ruled out software problems. This workstation is the farthest from the cabling closet and uses 10BaseT networking. Your cable tester gives the length from wall jack to patch panel as 90 meters. There is a 10-meter patch cable from the workstation to the wall, and a 3-meter patch cable from the patch panel to the hub.

Required result:
- Get the workstation to communicate with the server.
- Optional results: Increase overall network performance.
- Decrease network downtime.

Proposed solution:

- Replace NIC with 100Base-FX network card.

A. The proposed solution produces the required results only.
B. The proposed solution produces one of the optional results only.
C. The proposed solution produces both of the optional results only.
D. The proposed solution does not produce any required or optional results.

**Answer: D**

**Q248.**
What client software is required on Windows 95/98 to browse an NDS tree?

A. Novell Client for Windows
B. Microsoft Client for Novell NetWare
C. Novell Client for Microsoft Windows systems
D. Novell install suite

**Answer: A, B**

**Q249.**
You are concerned about security in your organization and decide to implement a secure password policy. What can you do to make your password policy more secure?

A. Require users to change passwords randomly
B. Set password expiration to 2 days
C. Make scheduled changes regularly
D. Require passwords with random numbers of characters

**Answer: C**

**Q250.**
Tom is trying to back up data to a DLT tape drive. He receives an error message that the tape drive is not available, this occurs even if Tom tries a new cartridge. What can you do to resolve the problem?

A. Replace the cable
B. Replace the tape drive
C. Put a tape cleaner into the drive
D. Replace the adapter card

**Answer: C**

**Q251.**
"Mirroring" uses what RAID level?

A. 2
B. 1
C. 3
D. 4

**Answer: B**

**Q252.**
You are the administrator of a network with 250 nodes. You want to implement video conferencing, but your network is performing poorly. Through network work analysis

software, you determine that the hub is the bottleneck. Which device should you install in place of the hub to alleviate the bottleneck?

A. A hub
B. A MAU
C. A switch
D. A repeater
E. A transceiver

**Answer: C**

**Q253.**
Which type of hub is limited to supporting distances of less than 30 meters (100 feet)?

A. Active
B. Hybrid
C. Passive
D. Switching

**Answer: C**

**Q254.**
Which layer of the OSI model is responsible for establishing, managing, and terminating communications between two computers?

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

**Answer: A**

**Q255.**
Given the following information:

- Your company's regular business hours are from 8 a.m. to 5 p.m. Monday to Friday.
- Your supervisor instructed you to run backups only after business hours to avoid impacting network performance.
- You have a 50 GB tape drive with a data transfer rate of 3600 KB/min, allowing transfer of 2.1 GB per hour.
- You have 40 GB to backup.

On which day(s) can you do full backups? (Choose all that apply.)

A. Monday
B. Tuesday
C. Wednesday
D. Thursday
E. Friday

**Answer: E**

**Q256.**
You must implement a remote access strategy for your corporate network.

Required objectives:
- Full WAN connectivity.

Optional objectives:
- Secure connection.
- Access via Internet Service Provider (ISP).

Proposed solution:
- Use PPTP.

Which objectives are met by the proposed solution?

A. The required and both of the optional results
B. The required and one optional result
C. The required and no optional results
D. None of the objectives are met

**Answer: A**

**Q257.**
You use NetBEUI exclusively on your network. Traffic is heavy. What can you do to improve performance?

A. Segment the network with a bridge
B. Use a gateway
C. Use a repeater
D. Use a router

**Answer: A**

**Q258.**
What is the best strategy for implementing a continuous power supply?

A. UPS
B. SPS
C. CPU

**Answer: A**

**Q259.**
With regard to NT and NetWare 5 connectivity, what protocols can be used to connect the two? (Choose two)

A. IP
B. IPX
C. NetBEUI
D. DLC

**Answer: A, B**

**Q260.**
You have sent an email to them@theirmail.au. Your email address is me@mymail.com. In what order are the domain names resolved?

A. com, au, theirmail.au, mymail.com,
B. mymail.com,.com, au, theirmail.au

C. com, mymail.com.au, theirmail.au
D. theirmail.au mymail.com, com, au,

**Answer: B**

**Q261.**
Which of the following are features of PSTN? (Choose three)

A. Ease of configuration
B. Inexpensive cost
C. Readily available
D. 64 Kpbs

**Answer: A, B, C**

**Q262.**
Which of these is the most secure choice for a user password?

A. Uone
B. UserO
C. Password
D. User$one

**Answer: D**

**Q263.**
To configure TCP/IP to use WINS what settings on your PC must be set properly? (Choose two)

A. Primary WINS Server
B. Scope ID
C. Enable WINS Resolution
D. Secondary WINS Server

**Answer: A, C**

**Q264.**
You have 21 NT servers, 6 UNIX servers, 1 Novell 5 server, and 50 Windows 95 workstations.
Choose one protocol that will connect to ALL servers.

A. IP (Novell 5 supports native IP)
B. DLC
C. NWLink
D. NetBEUI

**Answer: A**

**Q265.**
Which Ethernet implementation do you use for a connection of a distance over 1 km?

A. 10Base2
B. 10Base5
C. 10BaseT
D. 10BaseFX

**Answer: D**

**Q266.**
Which three are valid TCP/IP protocols? (Choose three)

A. SAP
B. TCP
C. HTTP
D. DHCP
E. NetBEUI

**Answer: B, C, D**

**Q267.**
Which application supports NetBIOS over TCP/IP?

A. IP
B. DNS
C. NFS
D. WINS
E. NTFS

**Answer: D**

**Q268.**
Which TCP/IP utility is used to determine whether a remote computer is reachable by sending it multiple ICMP echo requests?

A. ARP
B. PING
C. Telnet
D. Ipconfig
E. Winipcfg

**Answer: B**

**Q269.**
You manage a Windows NT network with five clients. Which two commands can you use to view the routing table of your NT server? (Choose two.)

A. Arp
B. Ping
C. Route
D. Tracert
E. Netstat
F. Nbstat

**Answer: C, E**

**Q270.**

Your entire network of 100 computers is bogged down. Everything is connected correctly and there are no conflicts that you are aware of. What can you use to help isolate the problem?

A. NETSTAT
B. NBTSTAT
C. Loopback hardware
D. Network Monitor

**Answer: D**

**Q271.**
Which of the following security scenarios is the most restrictive?

A. Share level access
B. User level access
C. None of these

**Answer: B**

**Q272.**
Which type of IP routing incorporates RIP?

A. CRC
B. Static
C. Dynamic
D. Circular

**Answer: C**

**Q273.**
Which of these protocols are routable? (Choose two)

A. NetBIOS
B. NetBEUI
C. IP
D. TCP

E. IPX

**Answer: C, E**

**Q274.**
What is the default subnet mask for a class C network?

A. 255.255.255.224
B. 255.255.255.0
C. 255.255.0.0
D. 255.0.0.248

**Answer: B**

**Q275.**
What utility can allow you to see active connections on a server?

A. PING
B. NBTSTAT
C. NETSTAT
D. TRACERT

**Answer: C**

**Q276.**
You have three hard disks with capacities of 200 Mb, 400 Mb, and 500 Mb. Which storage technology would allow the largest contiguous space for data?

A. Volume
B. Striping
C. Partition
D. Mirroring

**Answer: A**

**Q278.**
Which header field is used to route datagrams?

A. Port address
B. MAC address
C. Source address
D. Destination address

**Answer: D**

**Q279.**
Which network resource provides services for users?

A. Local host
B. Server
C. Workstation
D. ISDN

**Answer: B**

**Q280.**
Which routing method requires the most administrative overhead?

A. Bridging
B. Static
C. Dynamic
D. Relay

**Answer: B**

**Q281.**
What does a patch cable connect to in a token ring network?

A. A workstation to a router
B. To workstations
C. Two MAU's together

**Answer: C**

**Q282.**
What IEEE specification does CSMA/CD map to?

A. 802.4
B. 802.2
C. 802.3
D. 802.6

**Answer: C**

**Q283.**
To put comments in a host file, what symbol is used?

A. ;
B. %u
C. $
D. @
E. *
F. #

**Answer: F**

**Q284.**
Which of these protocols are in TCP/IP suite? (Choose three)

A. NetBEUI
B. IP
C. DHCP
D. HTTP
E. SAP

**Answer: B, C, D**

**Q285.**
Which TCP/IP protocol will your e-mail client use to download mail from the server?

A. FTP
B. POP3
C. SMTP
D. SNMP

**Answer: B**

**Q286.**
What is the physical layout of components on a network called?

A. Backbone
B. Protocol
C. Segment
D. Topology

**Answer: D**

**Q287.**
The default port for HTTP is _____?

A. 21
B. 23
C. 25
D. 80

**Answer: D**

**Q288.**
You have a 10BaseT connection. It is 10 meters between the NIC and the wall plug, 90 meters from plug to wiring closet, and 3 meters from wiring closet to hub. Your computer cannot connect. What should you do?

Required objectives:

- Connect to the server.
- Optional Objectives:
- Faster connection.
- Easier access for users.

Proposed solution:

- Replace the NIC with a 100baseFX NIC

A. This meets only the required objective and not the optional objective
B. This meets the optional objective only
C. This meets the required and optional objectives
D. This does not meet the required or optional objectives

**Answer: D**

**Q289.**
Which two tape backup methods clear the archive attribute? (Choose two.)

A. Differential
B. Sequential
C. Full
D. Incremental

**Answer: C, D**

**Q290.**
What utility can you use to troubleshoot an HTTP server?

A. PING
B. TDR
C. Telnet
D. NBTSTAT

**Answer: C**

**Q291.**
The unique number stamped onto every Ethernet card ever made is known as a

A. Hosts Address
B. Serial Number
C. IP Address
D. MAC Address

**Answer: D**

**Q292.**
You load print services on a server and the service does not appear to have started and is causing problems. Where would you look to investigate further?

A. Registry
B. Network settings
C. Log file
D. DNS

**Answer: C**

**Q293.**
Servers are rebooting. An investigation indicates humidity of 40% and a temperature of 95 degrees Fahrenheit. All UPS units are working. What should you do?

A. Lower the temperature
B. Increase temperature
C. Do nothing

**Answer: A**

**Q294.**
Which TCP/IP protocol gives a logical address to a host?

A. IP
B. TCP
C. UDP

D. SMTP

**Answer: A**

**Q295.**
Which of these parameters can be configured in your Network Properties? (Choose four)

A. WINS server IP address
B. DNS server IP address
C. IP address
D. Gateway
E. IP address of DHCP server

**Answer: A, B, C, D**

**Q296.**
You transfer data via a WAN and want to secure data. Which of the following is the best approach?

A. Share level security
B. Encrypt Data
C. Password protect data
D. Use ISDN

**Answer: B**

**Q297.**
What UART chip is needed to provide a modem connection of 115200 bps?

A. 85.xx
B. 65.xx
C. 100.xx
D. 165.xx

**Answer: D**

**Q298.**
A user complains that he can't log onto a server. What troubleshooting steps should you take to resolve the problem? (Choose three)

A. Ask a user on the same segment to try and connect
B. Ask a user on a remote segment to try and connect
C. Replace the NIC
D. Try and ping the server

**Answer: A, B, D**

**Q299.**
Place each common protocol name next to its associated port number.

**Answer:**

**Q300.**
A user cannot log on to the network. What is your first step to resolve the problem?

A. Replace the NIC.
B. Reboot the workstation.
C. Reinstall the network client software.
D. Determine of other users can log on.

**Answer: D.**

**Q301.**
You company has just migrated its Novel NetWare server to Windows NT. Because you are more familiar with the IPX/SPX protocol, you choose to use it instead of TCP/IP. You connect your network to the Internet through am ISDN connection.
Which limitations will you encounter?

A. You must install TCP/IP to access the Internet.
B. None. IPX/SPX works well in an Internet environment.
C. You must install NetBEUI to reduce your broadcast overhead and to access the Internet.
D. IPX/SPX is not a routable protocol and will not allow your network to access the Internet.

**Answer: A.**

**Q302.**
What does a WINS server provide?

A. Hostname to IP address resolution.
B. Hostname to PIX address resolution.
C. NetBIOS name to IP address resolution.
D. NetBIOS name to IPX address resolution.

**Answer: C.**

**Q303.**
Your network has a permanent connection to the Internet. Your local network included a Web server and an SMTP server. You are concerned about the threat of hackers gaining access from the Internet. You decide to set up filtering on your Internet router. After you make this change, your local clients can no longer download files from an external FTP site. You think your router may be blocking a standard port. What port is being blocked?

A. 21
B. 25
C. 53
D. 110

**Answer: A.**

**Q304.**
Which server operating system natively uses domain severs?

A. Linux

B. NetWare 5.0
C. MAC OS 8.0
D. Windows 2000

**Answer: A.**

**Q305.**
Which networking topology connects computers along a single linear segment?

A. bus
B. ring
C. star
D. mesh

**Answer: A.**

**Q306.**
You have a permanent connection to the Internet for your network. Your local network included a Web server and an SMTP server. You are concerned about the threat of hackers gaining access from the Internet. You have set up filtering on your Internet router.
Your local SMTP server has stopped sending or receiving messages from the Internet, although your local users can still access local and Internet Web servers.
What should predict the cause of the problem is?

A. Your DHCP server is down.
B. Your Internet router is blocking port 25.
C. Your Internet router is blocking port 110.
D. Your Web server is filtering mail requests.

**Answer: B.**

**Q307.**
Which layer of the OSI model is responsible for sequencing?

A. Physical
B. Transport

C. Data Link
D. Application
E. Presentation

**Answer: C.**

**Q308.**
What is the maximum length of a Gigabit Ethernet segment using multimode fiber optic cable?

A. 100 meters
B. 325 meters
C. 550 meters
D. 3 kilometers

**Answer: C.**

**Q309.**
Which three processes does a proxy server perform? (Choose three)

A. Compresses data on the disk storage device.
B. Enhances security and administrative control.
C. Acts as an intermediary between an application and the Internet.
D. Acts as an intermediary between a workstation user and the Internet.

**Answer: B, C, D.**

**Q310.**
Which type of network uses IP addresses created by the local Network Administrator?

A. Public network
B. ARCNet network
C. Private network
D. Internet network

**Answer: C.**

**Q311.**
A user wants to place a 10BASE-T network printer at a location in the warehouse. The printer is installed in the warehouse and is connected to the 10BASE-T hub in a nearby administration building. The printer does not function.
What is the problem?

A. The cabling used is not Category 5.
B. The 10BASE-T hub uses RJ-45 connectors.
C. The length of the cable is greater then 100 meters.
D. The printer uses an AUI connector to connect to its 10BASE-T transceiver.

**Answer: C.**

**Q312.**
Which TCP/IP port number identifies POP?

A. 21
B. 23
C. 25
D. 80
E. 110

**Answer: E.**

**Q313.**
You currently have a permanent connection to the Internet for your network. Your network included a Web server and an SMTP server. You are concerned about the threat of hackers gaining access from the Internet. You set up filtering on your Internet router. You users are no longer able to access their external POP3 accounts.
What is the most likely cause of the problem?

A. Your DHCP server is down.
B. Your Internet router is blocking port 25.
C. Your Internet router is blocking port 110.
D. Your Web server is filtering mail requests.

**Answer: C-**

**Q314.**
Which two connectors should you use with fiber optic cabling? (Choose two)

A. SC
B. ST
C. AUI
D. BNC
E. RJ-11
F. RJ-45

**Answer: A, B.**

**Q315.**
Which device connects computers with wireless adapters to a network?

A. hub
B. router
C. switch
D. access point

**Answer: D.**

**Q316.**
Given:

- A TCP/IP network environment with multiple subnets.
- A user connects to a Windows NT server named CORPSERV on its local subnet.
- WINS is NOT in use.

A user is moved to another subnet. The user is now unable to login to CORPSERV. What is the problem?

A. A HOSTS file needs to be configured.
B. A LMHOSTS file needs to be configured.
C. A SERVICES file needs to be configured.
D. A PROTOCOL file needs to be configured.

**Answer: B.**

**Q317.**
Which two drive technologies does Network Attached Storage (NAS) use? (Choose two)

A. IDE
B. LUN
C. DMA
D. SCSI

**Answer: A, D.**

**Q318.**
What is the maximum length of a 100Base-T Ethernet UTP segment?

A. 100 meters
B. 185 meters
C. 325 meters
D. 550 meters

**Answer: A.**

**Q319.**
Which medium connects a Small Office-Home Office (SOHO) computer to an external DSL modem?

A. RG-58 coaxial
B. Category 5 UTP
C. RS-232 serial cable
D. Single-Mode Fiver Optic

**Answer: B.**

**Q320.**

Which piece of information do you need to obtain root access to resources on a Linux system?

A. username
B. password
C. domain name
D. e-mail address

**Answer: B.**

**Q321.**
Which three devices provide a path between a node on one LAN and a node on another LAN? (Choose three)

A. hub
B. router
C. bridge
D. switch
E. managed hub

**Answer: B, C, D.**

**Q322.**
Which two items should you use to connect a Windows 9x machine to a Novell server? (Choose two)

A. NetWare
B. IPX/SPX
C. NetBEUI
D. Client for NetWare Networks.

**Answer: B, D.**

**Q323.**
Which two devices typically provide hardware data loopback capabilities? (Choose two)

A. bridges

B. modems
C. CSU/DSUs
D. Ethernet hubs
E. Wireless access points

**Answer: C.**

**Q324.**
Which access method does Gigabit Ethernet use?

A. ATM
B. CSMA/CD
C. Frame Relay
D. Token passing

**Answer: B.**

**Q325.**
What are three typical functions of the client in the client/server environment? (Choose three)

A. It formats a request for data.
B. It performs a search for the data.
C. It displays data results to the user.
D. It produces requested information.
E. It presents an interface to the user.

**Answer: A, C, E.**

**Q326.**
Your company is planning to rebuild its network infrastructure. You are asked to provide a topology that will be scalable and easy to troubleshoot. Which topology should you recommend?

A. bus
B. ring
C. star

D. mesh

**Answer: C.**

**Q327.**
Which IEEE 802.x sublayer specifies standards for CSMA/CD?

A. 802.1
B. 802.2
C. 802.3
D. 802.4
E. 802.5

**Answer: C.**

**Q328.**
Which two network technologies use the same media access method? (Choose two)

A. FDDI
B. Ethernet
C. AppleTalk
D. Token Ring

**Answer: A, D.**

**Q329.**
A user cannot connect to the network using Windows 95. You instruct the user to check the IP address.

Which command should the user run?

A. winipcfg
B. ipconfig
C. winipconf
D. ipconfog/all

**Answer: A.**

**Q330.**
Where is the file system located in a Network Attached Storage (NAS) system?

A. At the router.
B. At the switch.
C. At each client.
D. At the storage device.

**Answer: D.**

**Q331.**
Which statement describes an SC connector?

A. A BNC-style connector that uses fiber.
B. A push-style connector that uses fiber.
C. A six-position connector that uses UTP.
D. An eight-position connector that uses UTP.

**Answer: B.**

**Q332.**

Which command's output is displayed in the exhibit?

A. ipcfg
B. ipconfig
C. winipcfg
D. winipconfig

**Answer: C.**

**Q333.**
You receive a call from a user working from a virtual office at home. The office is connected to the corporate site using ADSL through a local ISP. All of the light on the external DSL modem indicate that it is connected to the CO. A reboot of the modem indicates a normal reconnect to the CO. However, the user is not able to connect to the Internet?
What is the possible DSL problem?

A. The user's phone line is busy.
B. The DSL access multiplexer is down.
C. The DSL filter is connected to the mode.
D. The ISP connection to the DSL access multiplexer is down.

**Answer: D.**

**Q334.**

In the configuration shown in the exhibit, you have just finished building a small home network. You find that you cannot access the Internet. You ping the DSL router successfully. You suspect that the default is not set on the workstation.

Which utility should you use to confirm your diagnosis?

A. netstat
B. gateway
C. ipconfig
D. winipcfg

**Answer: C.**

**Q335.**

```
Windows 98 IP Configuration

        Host Name ..................... : DELL #14
        DNS Servers ................... :
        Node Type ..................... : Broadcast
        NetBIOS Scope ID.............. :
        IP Routing Enabled............ : No
        WINS Proxy Enabled............ : No
        NetBIOS Resolution Uses DNS.. : No

0 Ethernet adapter :

        Description ................... : 3Com EtherLink PCI
        Physical Address.............. : 00-B0-D0-1D-F5-5B
        DHCP Enabled .................. : Yes
        IP Address .................... : 169.254.184.57
        Subnet Mask ................... : 255.255.0.0
        Default Gateway ............... :
        DHCP Server ................... : 255.255.255.255
        Primary WINS Server........... :
        Secondary WINS Server........ :
        Lease Obtained ............... : 06 07 01 2:16:31 PM
        Lease Expires ................ :
```

You are troubleshooting a connectivity problem on a Windows 98 workstation attached to a large Ethernet network. All of the other workstations on this segment are working fine. All of the workstations (regardless of OS) have IP configured via a DHCP server. Based on the information in the exhibit, what is a possible problem?

A. Microsoft TCP/IP assigned an IP address in the absence of a DHCP server.
B. NetWare/IP assigned an IP address in the absence of a DHCP server.
C. Microsoft DNS server assigned an IP address in the absence of a DHCP server.
D. An Apple Macintosh G3 server assigned an IP address in the absence of a DHCP server.

**Answer: A.**

**Q336.**
A remote user has recently been set up to use a NetWare 4.11 server. The user has previously been dialing in to the network to send and receive e-mail and to access the Internet. The user had dialed in to the network and is able to send and receive e-mail, but is not able to connect to the server.
What is the most likely cause of the problem?

A. The user's connection is too fast.
B. The user is not connected to the network.
C. The user's dial-up connection protocols are not configured properly.
D. The user's modem is not capable of connecting to a NetWare server.

**Answer: C.**

**Q337.**
All users on the network have been unable to connect to the server for the last 15 minutes. The server cannot ping any of the workstations or its own loopback address even after a reboot.
Which statement is true?

A. The server's NIC has failed.
B. All clients need to be rebooted.
C. The DNS server needs to be restarted.
D. The DHCP server needs to be restarted.

**Answer: A.**

**Q338.**
You are connecting a UNIX/Linux workstation to an outside WAN server. Which two steps should you perform to properly configure eth0? (Choose two)

A. set netmask
B. set gateway
C. run ifup eth0

D. set MAC address

**Answer: B, C.**

**Q339.**
You are assisting your senior technician in extended the Demarc for a new DSL circuit. Which tool should you use?

A. multimeter
B. optical tester
C. punch down tool
D. bit error rate tester

**Answer: C.**

**Q340.**

The WAN connection is provided by the Local Exchange Carrier (LEC). The LEC is able to loop and test good to the Network Interface (NI), but not to the CSU/DSU.
What can cause the LEC to not loop the CSU/DSU?

A. Router not configured to route.
B. A bad cable pair form the CSU/DSU to the NI.
C. A bad cable pair from the router to the CSU/DSU.
D. Workstations not configured with a default gateway.

**Answer: B.**

**Q341.**

Users complain of slow performance on the network shown in the exhibit. There are also high occurrences of collisions. What is the problem?

A. Category 3 cabling is used.
B. There is a loose 50 ohm terminator.
C. Multimode fiber is used instead of Single-Mode fiber.
D. A BNC T connector is disconnected from a machine but both cables are still connected to the BNC T.

**Answer: B.**

**Q342.**

Before being moved to a new network with Internet access, a user was able to log in to the main Windows NT server and access the Internet. The user is now unable to access the Internet or the file server.
What is the problem?

A. IPX needs to be installed on the workstation.
B. DLC needs to be installed on the workstation.
C. DHCP needs to be disabled and a static IP address needs to be assigned.
D. NetBEUI automatic configuration needs to be disabled and a static NetBEUI address needs to be assigned.

**Answer: C.**

**Q343,**
Which two are mail protocols? (Choose two)

A. IMAP4
B. SNMP
C. POP3
D. POTS

**Answer: A, C.**

**Q344.**
A Windows NT workstation is moved from one network segment to another within your local network. After the move, the workstation is no longer able to connect to one of the Windows NT servers it previously used. The workstation is configured to use NetBEUI. What is the most likely source of the problem?

A. The workstation is using routable protocol.
B. The workstation is using a non-routable protocol.
C. The router between the segments is blocking port 139.
D. The router between the segments is blocking port 193.

**Answer: B.**

**Q345.**

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A user is able to access the Internet and departmental drives, but is unable to see the home directory. You verify that the user directory is located at the appropriate server location?
What is the most probable cause?

A. The user is not logged in to the domain.
B. The directory location has been unmapped in the user's profile.
C. The user has logged on to the network with the wrong password.
D. The network cable between the user's workstation and the flex point is bad.

**Answer: B.**

**Q346.**
A customer needs a 1.5 megabits per second (Mbps) connection to the Internet. Which line should you recommend?

A. T1
B. DS0
C. 56 Kbps
D. BRI ISDN

**Answer: A.**

**Q347.**
A switch was added to an office to reduce the collision domain. The switch has been up and running for a month. Users have called in from this office today and complaining that the network is slow.
What is the appropriate course of action at this point?

A. Document the solution.
B. Implement your solution.
C. Establish what was changed.
D. Select the most probable cause.

**Answer: C.**

**Q348.**

In the configuration shown the exhibit, the workstation is unable to connect to Host X. A visual examination reveals the collision light on the hub is steadily lit. All other link lights are lit.
Which component is the most likely cause of this problem?

A. A chattering NIC in Host X.
B. A chattering NIC in the workstation.
C. A bad cable between the modem and Host X.
D. A bad cable between the router and the modem.

**Answer: B.**

**Q349.**
Which two communication protocols use the Routing Information Protocol (RIP)? (Choose two)

A. TCP/IP
B. NetBEUI
C. IPX/SPX
D. AppleTalk

**Answer: A, C.**

**Q350.**

```
C:\>"command" ServerX

"command" to ServerX [10.0.0.110]
 1  <101 ms    <101 ms    100 ms    RouterA [10.0.0.1]
 2  <9 ms      <9 ms      9 ms      RouterB [10.0.0.2]
 3  <60000 ms  <60000 ms  6000 ms   RouterC [10.0.0.3]
 4  <10 ms     <10 ms     1 ms      ServerX [10.0.0.100]


"command" complete.
```

Users have called your help desk complaining of slow response on an application. You want to see if the network is responsible for the slowdown.
What does the information in the exhibit convey?

A. A network delay using tracert
B. A network delay using ping –w
C. A network delay using netstat –a
D. A normal network response using nbstat

**Answer: A.**

**Q351.**
Which protocol collects network management information?

A. SGML
B. SMTP
C. SNMP
D. SMDS

**Answer: C.**

**Q352.**
Which two make up an IPX address? (Choose two)

A. Subnet mask
B. Header prefix
C. MAC address
D. Network address

**Answer: C, D.**

**Q353.**
A contractor added a DHCP server to your 200-node network. The contractor was instructed to use the same range of address that was being used previously. You are able to make manual changes to most of the machines, but some machines are in locked areas. Which error messages should you expect to see on those machines?

A. IP address conflicts
B. IPX address conflict
C. NIC address conflicts
D. Server address conflicts

**Answer: A.**

**Q354.**
What is a valid IPv4 address?

A. 129.22.253.1
B. 265.35.15.67
C. 43A6::DA30:0012:00C3:3FA4:0D32:12E2
D. 43A6.0000.DA30.0012.00C3.3FA4.0D32.12E2

**Answer: A.**

**Q355.**
Which network protocol uses zone to provide interoperability between Macintosh users?

A. TCP/IP
B. IPX/SPX
C. NetBEUI
D. AppleTalk

**Answer: D.**

**Q356.**
A new workstation has been installed in the network. The user regularly uses a Novell 3.11 server. The user cannot access the Internet.
Which protocol is NOT installed on the workstation?

A. IPX
B. DLC
C. TCP/IP
D. Net/BEUI

**Answer: C.**

**Q357.**
Which method encapsulates standard PPP through a variety of media?

A. SSL
B. IPsec
C. L2TP
D. Kerberos

**Answer: C.**

**Q358.**
Which dial-up protocol does not provide addressing, packet type identification, error detection/correction, or compression mechanisms and requires that the device on each end known the other's address?

A. PPP
B. SLIP
C. POTS
D. TCP/IP

**Answer: B.**

**Q359.**
Which device connects a computer to a digital data service provided by the local telephone company?

A. V.34 modem.
B. Fax machine.
C. LAN adapter.
D. ISDN adapter.

**Answer: D.**

**Q360.**

In the configuration shown in the exhibit, the light in interface A of the hub is not lit. All other link lights are lit.
Which component is the most likely cause of this problem?

A. Hub
B. Router
C. Modem
D. Patch cord

**Answer: D.**

**Q361.**
Which provides NetBIOS name to IP address resolution?

A. hosts
B. lmhosts
C. services
D. protocol

**Answer: B.**

**Q362.**

```
C:\>tracert Workstation1

Tracing route to 10.0.0.5 over a maximum of 30 hops
1 <10 ms <10 ms <10 ms router1 [10.0.0.1]
2 <10 ms <10 ms< 10 ms router2 [10.0.0.2]
3   *      *     *      Request timed out
```

You should have three routers between you and workstation1. Where should you start troubleshooting, based on the information in the exhibit?

A. Between router1 and router2.
B. Between router2 and router3.
C. Between router3 and workstation1.
D. Between your workstation and router2.

**Answer: B.**

**Q363.**

Workstation A can connect to Server 1, but cannot connect to Server 2. What should you do first to solve this problem?

A. Reboot Server 2.
B. Check the Workstation A gateway address.
C. Check the Workstation B gateway address.
D. Reload Workstation A's operating system.

**Answer: C.**

**Q364.**
Which hardware device creates an electrical signal on a wire so it can be located by a technician in the wiring closet?

A. Tone locator
B. Tone generator
C. Crossover cable
D. Hardware locator

**Answer: B.**

**Q365.**
Which connector connects a v.90 modem to the telephone network?

A. SC
B. ST
C. BNC
D. RJ-11
E. RJ-45

**Answer: D.**

**Q366.**
What does a firewall help ensure?

A. That network users are safe.
B. That personnel costs remain low.
C. That hardware is safe from failure.
D. That the network is safe from outside influence.

**Answer: D.**

**Q367.**
Which describes a VLAN?

A. An Ethernet network that uses PPP encapsulation.
B. A conceptual LAN that is created in CAD environment.
C. A group of ports that behaves as an independent switch.
D. A collection of computers that utilizes an experimental protocol.

**Answer: C.**

**Q368.**
Which media access method is used for an IEEE 802.5 network?

A. Polling

B. Token passing.
C. Demand priority.
D. Carrier sense multiple access/collision detection.
E. Carrier sense multiple access/collision avoidance.

**Answer: B.**