Comptia Network+ Exam

Network+ Certification (Network Plus Certification)

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Department of Computer Science

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First Name : Richard
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Rules

. You have 60 minutes for the exam.
. Please write your name and Login-ID number on all sheets of paper.
. Please write your answers on the exam sheet. You must give your answers in English.
. The exam consists of 53 questions. The maximum number of points that can be achieved is 100.

Statement

. If you wish us to publish your results (grade) on a web page, then please sign the following statement.

Signature : Richard M. Del Priore
1. Bridges operate at physical layer. T/F?
   Correct answer: B. False

2. UNIX is an open source Operating System. T/F?
   Correct answer: B. False

3. UNIX is not an open source operating system. Linux is an open source operating system that has similarities with UNIX's look and feel.
   Which of the following devices is required to complete a VLAN set up successfully?
   Correct answer: B. Router

4. After VLAN segmentation has been done, to enable communication between the two divisions you require a router. Which networking topology is the easiest to reconfigure?
   Correct answer: C. star

5. A star topology requires virtually no reconfiguration.
   Which of the following are services of a proxy server? (Choose three.)
   Correct answer: A. Cached e-mail, B. Cached client files, C. Cached web pages

6. A proxy server can cache e-mail, client files, or web pages. Caching DNS information is the function of a DNS server itself. Routing Information Protocol (RIP) by default has _____________ number of hops.
   Correct answer: A. 15
7. Routing Information Protocol (RIP) is by default configured for a maximum 15 hops, and the 16th hop will be considered as infinity. PPTP is a protocol that is ideally meant for _____.
Correct answer: C. VPNs

8. PPTP is a tunneling protocol that helps with the security and encapsulation required by VPNs.
Which IEEE standard describes the specifications for a ring topology?
Correct answer: E. 802.5

9. 802.5 is the Standard for Token ring networks.
Which of the following can be used to check for the transmission and reception ports on a NIC?
Correct answer: D. hardware loopback

10. A hardware loopback checks outgoing signals of a device.
Which of the following allows fault tolerance for user authentication in a Windows 2000 network?
Correct answer: A. Multi master replication

11. The ADS allows for multi-master replication across locations, to ensure there is at least one server on the network that contains user information for the user waiting to be authenticated. The ADS employs the flat domain structure. T/F?
Correct answer: B. False
12. The flat domain structure is employed by the NTDS. The ADS employs the hierarchical domain structure. Kerberos is ideally meant for ____________.
   Correct answer: A. Authenticating LAN users

13. Kerberos is a security type used to authenticating LAN users. For securing the WAN users' authentication you would require IPSec. Provide the broadcast address for the following:
   IP Address: 221.240.224.121
   Subnet mask: 255.255.255.248.
   Correct answer: A. 221.240.224.127

14. 256-248 = 8. All subnet Ids will be multiples of 8. Hence here the subnet Id is 120, considering which the next subnet Id is 128. Therefore broadcast address for subnet Id 120 is 127. Therefore 221.240.224.127 is the broadcast Id here. Which of the following is used to map Network-layer protocol address to DLCIs?
   Correct answer: B. Inverse ARP

15. Frame relay uses inverse arp to map network layer protocol addresses to their respective DLCI. Which of the following protocols is supported by Windows 2000 Server for the purpose of dial-up? Choose two
   Correct answer: A. PPP, B. SLIP

16. Windows 2000 Servers supports PPP and SLIP. SLIP can be used only for outgoing traffic. Exhibit Identify the command that yields the output displayed in the exhibit
   Correct answer: C. `netstat -a`
17. This command shows the state of all sockets. The -a option tells netstat to show you the status of all open sockets on a machine. A Windows client in your Netware network had a faulty NIC which got replaced. The workstation no longer connects to the network, even though the configuration of the NIC is completed successfully. What could the problem be?

**Correct answer:**
A. Frame type of the NIC is misconfigured

18. For a client to communicate with the Netware server, the frame type on both of them should be same.
IPX routing is enabled by default in all Cisco routers. T/F?

**Correct answer:**
B. False

19. IP routing is enabled by default in the Cisco IOS. IPX routing will have to be enabled using specific commands. Into which of the following does the ADS store its information? Select all that apply

**Correct answer:**
A. AD database, B. AD log files, C. Shared system volume.

20. The database is the actual directory, log files will store changes to the database that can be used for roll back situations as well, system volume will contain policies that are applied on the objects. Which of the following is the correct connection for cascading MAUs?

**Correct answer:**
C. Connect the ring in port to the ring out port on each MAU.

21. The ring in port of one MAU should be connected to the ring out port of the other MAU. Plug and play technology allows you to add devices to the computer without having to turn it off. T/F?

**Correct answer:**
B. False
22. Hot pluggable technology allows you to add devices to the computer without having to turn it off. PnP just allows an ease of configuration. Which of the following are some commonalities between Windows NT and Windows 2000?

Correct answer:
A. They are both based on NT kernel.

23. Although both Windows NT and Windows 2000 are based on NT kernel, it is only Windows 2000 that is meant for Internetworking and needs DNS for its basic operations. After building a small network and connecting it to your ISP you notice that the clients are unable to browse the Internet. You call your ISP and he asks for the information configured on your router. You present the required information to him. He says the information is as it should be. You browse the net from the computer directly connected to your DSL modem and you are able to do so. What could the problem be?

Correct answer:
D. Default gateway not set on the workstations

24. The problem appears to be on the workstation end. Administrative authority is delegated to Administrators in Windows 2000 networks. T/F?

Correct answer:
B. False

25. Administrative authority is delegated to container objects called Organization Units in Windows 2000 networks. You have just upgraded your Dial-up server on the network. This server was used to share internet connections to the entire network. Users are unable to connect to the Internet now. What could be the likely cause of the problem?

Correct answer:
B. The DNS server could have failed to start right services.

26. The upgrade process most likely had to be followed by patches or application which did not get done. As a result probably the right services may not have started on this server. ________ is used to propagate VLAN information across a trunked link.

Correct answer:
B. Virtual Trunk Protocol
27. VTP is the protocol that helps to propagate VLAN information. Which of the following is the least fault tolerant of all networking topologies?
Correct answer: A. bus

28. A bus network requires only a single cable per segment. If any device in the segment fails, then the whole segment crashes. Which of the following makes the DNS environment a backbone of the Windows 2000 network?
Correct answer: B. DDNS

29. DNS in the Windows 200 network is a dynamic service that interacts with the clients/servers as well as DHCP to record the changes occurring in the IP based network to help immediate connection with the required resource. Hence the Dynamic DNS (DDNS) can easily be considered the back bone of the Windows 2000 network. How many maximum subnet IDs are possible in this situation?
Class C network 221.222.162.0 255.255.255.0, subnet by borrowing 5 bits,
Correct answer: A. 30 subnet IDs
$2^5 = 32$. First subnet of all 0s not considered and last subnet of all 1s not considered. Hence 32 - 2 = 30 subnets are possible.

30. Which of the following access security does Windows 2000 Server use on LANs?
Correct answer: D. Kerberos

31. Windows 2000 uses the Kerberos protocol for access security.
You have just connected a brand new dial-up modem that does not require drivers. You have configured the modem and shared it for your Peer-to-Peer network as per the instructions in the manual. Your system just refuses to recognize this PCI modem. What must you do next?
Select 2
Correct answer: A. Change the slot., C. Try restarting your computer.
32. The simplest solution would be to restart the computer once again. If that fails to help the situation, you may change the slot in which the PCI modem resides.
   A backbone is a trunk cable that _____________.
   **Correct answer:** D. All of the above.

33. A backbone is referred to in various ways in different network scenarios. It can act as a trunk cable that connects different nodes and devices or network segment or networks itself. Which of the following file systems is supported by Windows 2000 & above OS only?
   **Correct answer:**
   B. NTFS 5

34. NTFS 5 is a newer version of NTFS 4 that is supported purely by Windows 2000 and above operating systems only. You are connecting an Windows 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.)
   **Correct answer:**
   A. The server is not running NetBEUI, C. The workstation is not running IPX/SPX

34. A common protocol is a must for any communication. Either the server needs NetBEUI or the client needs IPX/SPX. Which of the following statements about bridges is true?
   **Correct answer:**
   B. Bridges are more efficient than repeaters.

35. Bridges do not simply rebroadcast like repeaters
   You wish to segregate your sales department logically in terms of the products that they deal with. There are 3 such groups. The data intended for Product 1 must not reach Product 2 and 3 and so on. Which of the following would be an ideal solution for this situation?
   **Correct answer:**
   B. VLANs
36. VLANs are capable of grouping ports under a specific ID and allowing communication between only users connected to those ports. You have just created an internal network that has address 172.16.0.0/16. Which of the following will be the subnet mask you assign for this network?

Correct answer: D. 255.255.0.0

37. A 172.17.0.0/16 network uses a 16-bit network mask which is expressed as 255.255.0.0. You are a traveling user who connects to the remote site from your laptop whenever you visit that site. Today when you connect your laptop to the network, you are unable to login. You check your IP configuration and your IP address is 0.0.0.0. What is the likely cause for the problem?

Correct answer: B. The DHCP server is not reachable.

38. The IP address 0.0.0.0 indicates an IP configuration problem. The DHCP server cannot be reached. Which of the following file systems is used by UNIX?

Correct answer: B. Network file system

39. UNIX uses Network File System (NFS)

Which of the following file systems are not supported by Windows NT 4.0? Select 2

Correct answer: B. NTFS 5, D. FAT 32

40. Windows NT 4 supports only the legacy FAT 16 file system and the NTFS 4 with which it was introduced. Which of the following are used for increasing fault tolerance? Choose three

Correct answer: A. Tape backup, B. Mirrored servers, C. RAID disk storage

- Backup - Fault tolerance
- Mirrored servers - Fault tolerance
- RAID (for example RAID-5) disks - fault tolerance
- An off-site data archive - disaster recovery, not for fault tolerance.
41. Which of the following connector is used in a 10BASE2 Bus topology?
Correct answer:
C. BNC

42. BNC connectors are used to connect computers to a 10Base2 cable. Your present network uses HOSTS file for IP to host name resolution. You are planning on adding a DNS server and moving a few servers to a remote site with different IP address. Which of the following will hold true?
Correct answer:
C. Users will be able to connect if a DNS server is enabled and the HOSTS file is deleted.

43. The static hosts file will have to deleted when the DNS service gets enabled. Which of the following devices is used to connect multiple computers on a network segment?
Correct answer:
A. hub

44. A hub connects multiple computers to create a single logical network segment. The SMB (server message block) protocol runs on the Windows server and allows UNIX and Linux servers to see the Windows server as one of the UNIX/LINUX based servers. T/F?
Correct answer:
B. False

45. The SMB protocol runs on the UNIX or Linux server and helps the Windows server see the UNIX/Linux servers like as if they were one of the Windows servers itself. Which of the following commands will help to create a static route from a router Router A to destination network 172.12.0.0?
Correct answer:
B. ip route 172.12.0.0 255.255.0.0 172.12.8.1
46. The correct syntax to configure static ip route is: ip route destination_network subnetmask next hop router in the destination path. It is required that you block UDP ports on your firewall for security reasons. Which of the following services may be affected?

Correct answer:
B. NTP

47. NTP uses UDP port 123. The rest of them use TCP ports. In a Windows 2000 network, it is imperative that you must be physically connected to the printer into which you wish to fire a printout. T/F?

Correct answer:
B. False

48. Windows 2000 supports Internet Printing Protocol (IPP) that allows users to print to a URL and hence you may select a printer based on its location and fire a print out. Which of the following functions is a firewall capable of? Choose two

Correct answer:
A. Block traffic, B. Permit traffic

49. Depending upon the criteria of the configuration, the firewall will block or permit traffic matching the list in the configuration. Your routing network has been experiencing severe congestion lately. You suspect the oldest 2 routers to be causing the problem. How would you verify this?

Correct answer:
A. Use tracert

50. Using the tracert command on a destination that would be reached after traversing the entire routing network would tell you which router is causing problems. Which name resolution technique does a UNIX host use?

Correct answer:
A. DNS
51. UNIX use TCP/IP and host names. DNS is used for host to IP address resolution. DHCP (automatic IP configuration of clients) or Proxy server (internet access) do not apply here. LMHOSTS files are used for NetBIOS (not host names) to IP address resolution. Windows 2000 does not support plug and play devices and so every device will have to be manually configured. T/F?
   Correct answer: B. False

52. Windows 2000 is ideally meant for hot pluggable as well as plug and play devices. On a bus segment, you have introduced a new workstation after which the entire segment collapses. What could be the possible cause/causes for the problem? Select 2
   Correct answer: A. Faulty NIC, B. Faulty termination

53. The segment could collapse either due to faulty NIC that causes jabbering or due to faulty termination that leaves an open end. Which of the following directory services can the Active Directory Service be compared with?
   Correct answer: A. Netware Directory Services
Richard Del Priore

Examination Results
The following is official containing only the name of the applicant who passed the respective examination. This list is provided by the Controller of Examinations as an informational service and are to be relied upon as official notification or record.

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Please also note that passage of the Almeda University Controller of Examinations is only one of the requirements necessary for Network Plus Certification to practice.

Richard Del Priore has answered 53 out of 53 correct and has obtained a 100% score for a passing grade.

Achievement Grade Point Average of 4.0 in the Network + Exam / E-learning Course.

NOTIFICATION
IT Tech Degree examination (2011 scheme). The mark lists of the candidates will be sent to the respective centres of examination by 28.01.2011. The mark lists of those candidates, in respect of whom there are defects to be rectified, will not be issued although the results have been provisionally published.

The applications for scrutiny and revaluation of answer scripts should reach this office on or before 28.01.2012. A copy of the test will be marked down for the University website, for speedy processing.