Name: _____   Date: _____

Midterm: File Servers, DNS, ICS, Subnetting, Security Policies, Predefined Groups and Adding Administrators to a Windows 2003 Server and Routers

1. When creating an Active Directory on a server, we need to have a fully qualified domain name for the server. What website can we use to create a free FQDN for Active Directory setup?
   a. Google.com   b. Yahoo.com   c. freedyn.com   d. dyndns.org

2. Eventually you wish to <u>mirror</u> the information from the first disk on the server. How many hard drives do we need for the RAID 1 setup?
   a. 1   b. 2   c. 3   d. 4

3. The Interface tab in the DNS properties window will show what devices are listening?
   a. Intranet NIC   b. Motherboard   c. Internet NIC   d. Router

4. What DNS setup will identify computers on the internal network?
   a. Forward lookup   b. B Host record   c. SX Host record   d. A Host record

5. What is the default workgroup for a Windows 2003 server?
   a. Domain   b. domain.local   c. Bitlab   d. workgroup

6. When building a DNS server, we do not need root hints to speed up domain name resolutions.
   a. True   b. False

7. The default Class C IP address for routers and servers is
   a. 127.0.0   b. 168.192.0   c. 192.168.0   d. 255.255.255

8. What Event Logging setting do we not want to configure for the Windows server?
   a. No events   b. Errors only   c. Errors and Warnings   d. All events

9. What two tests do we run on a standard DNS server to verify proper functioning?
   a. Simple query test   b. Simple ping test   c. Retention query   d. Recursive query

10. On a file server without Active Directory, we have a client computer trying to connect to the server but the server does not appear in the client computer's workgroup list. Where can we find the workgroup name on the file server?
    a. System Properties – Computer Name   b. Administrative Tools- Services   c. Computer Management – Device Manager   d. Computer Management- Users and Groups

11. Your IP address in your business is 192.168.10.1 with a subnet mask 255.255.255.128. What is the maximum number of devices we can have on this subnet?
    a. 254   b. 256   c. 128   d. 126

12. We are setting up the network connection on the client computer connecting to a server using ICS. What IP addresses are used on the client's NIC? (circle all that are correct)

    a. DNS IP address   b. Gateway IP address   c. Subnet mask   d. IP address

13. Circle all unacceptable signal strengths when planning a Wi-Fi system? Cisco recommends at least a 25 dB on a 53 dB wireless signal.

    a. 15%   b. 25%   c. 35%   d. 50%

14. After creating a file server on the Windows 2003 server, we try to logon to the server from the client. We are not connecting to the server. What <u>two</u> items should be done?

    a. Reset the user's password   b. Check the typing of the username   c. Delete the user's account   d. Create a user's group name

15. Write the first four subnets of the Class A network 24.0.0.0 with the subnet mask 255.192.0.0

Subnet Mask	No. of Subnets	Number of Hosts	Network Address	Usable IP Range	Broadcast Address
255.192.0.0					

16. What two free DNS IP addresses are free from Google.com? (circle 2)

    a. 8.8.8.8   b. 8.8.8.4   c. 8.8.4.4   d. 8.4.4.4

17. What type of category 5e or 6 cable ends are used on connection between two switches?

    a. One 568A and one 568 B   b. Two 568A
    c. Two 568 B   d. Only 129C

18. What Windows server setup requires that the IP address 192.168.0.1 is not used?

    a. DHCP   b. ICS   c. DNS   d. WINS

19. The first octet of a class B network can be

    a. 10   b. 192   c. 128   d. 255

20. We want to connect our wireless devices to the ISP by Category 6 (gigabit) cable. What is the maximum length of the cable without a repeater?

    a. 185 meters   b. 500 meters   c. 2000 meters   d. 100 meters

21. What TCP/IP utility shows all the interface connections to the server?

    a. IPCONFIG/ALL   b. TRACERT/A   c. PING/ALL   d. NSLOOKUP/T

22. What two security areas need to have the client's username giving them access to a folder? (circle 2)

    a. Sessions   b. Permissions   c. Security   d. General

23. We have just added a user, created a folder and have given permissions to the user to have full control of the folder. What type of server did we just create?

    a. Directory server   b. DNS server   c. DHCP server   d. File server

24. A Forward Lookup Zone is used when the _____ cannot resolve a FQDN to IP address query.

    a. DHCP server   b. Router   c. Switch   d. DNS server

25. When purchasing and setting up a new router or computer, this protocol automatically releases or obtains an IP address. The default TCP/IP setup for these devices is using what TCP/IP protocol?

    a. Static IP   b. Set IP   c. DHCP   d. Subnet Mask IP

26. When setting up ICS on the server and client computers, we disable the internal _____ to connect the client to the server.

    a. Firewall   b. Subnet mask   c. Password policy   d. Lockout policy

27. A _____ server will be placed in line with the path to the Internet in a LAN and will distribute traffic to the clients. Anyone external to the LAN will only see the server's IP address.

    a. DNS   b. File   c. WINS   d. NAT

28. The binary number 10110111 equals

    a. 6   b. 175   c. 138   d. 183

29. The default number of tries when setting the Windows 2003 Lockout policy is

    a. 4   b. 5   c. 7   d. 3

30. The seven layers of the model called the Open System Interconnection (OSI) are

    a. Star, star-bus, bus, rj-45, coax, fiber-optic and ring.

    b. Physical, data-link, network, transport, session, presentation and computer user.

    c. Physical, data-link, network, transport, session, presentation, application, and computer user.

    d. Physical, data-link, network, transport, session, presentation and application.

31. If you moved a computer that was working seamlessly on a 100Mbps hub-based network to a 1000 Mbps hub-based network to a 1000Mbps hub-based network, and you are having intermittent problems staying connected to the network, what is the first thing you should do?
    a.   Open the computer and replace the NIC card
    b.   Replace the hub
    c.   Test the cable
    d.   Uninstall and reinstall the NIC driver

32. What is the best medium to install in a high-interference area caused by electromagnetic interference?

    a. UTP   b. STP   c. Fiber-optic cable   d. Coaxial cable

33. The computer lab at the college is wired in a

    a. Bus topology   b. Bus protocol   c. Star topology   d. Star protocol

34. WEP, WPA and WPA2 are _____ settings for the wireless connection.
    a. password   b. security   c. channel   d. IP address

35. When setting up a wireless router, we want the passphrase to have at least one number, at least one capital letter, at least one lower case letter and possibly a special character. We also want the password to have at least _____ characters.
    a. 4   b. 5   c. 3   d. 6

36. Servers do not need malicious software protection because they have robust applications?
    a. True   b. False

37. We should _____ the factory set password when setting up a router.
    a. maintain   b. keep   c. restore   d. change

38. The subnet mask is 255.255.255.0. You can hardly read the first octet of the TCP/IP address. Which one of these first octets goes with the subnet mask?
    a. 10   b. 127   c. 128   d. 194

39. There are _____ bits in a TCP/IPv4 address.
    a. 24   b. 32   c. 36   d. 40

40. What two releases of Windows 2003 server will support clustering?
    a. Web   b. Standard   c. Enterprise   d. Datacenter

41. Name two places an old network device can be taken when the organization no longer requires it.
    a. Landfill   b. College test lab   c. Dumpster   d. Computer recycler

42. How many processors will 2003 Enterprise server support?
    a. 64   b. 32   c. 16   d. 8

43. The Local Security Policy is found in
    a. Control Panel   b. Desktop   c. Administrative Tools   d. Command prompt

44. The Software EULA often states the following (circle all that apply)
    a. Number of licenses   b. Copyright   c. Legal use   d. Multiple copies

45. When setting up a Static IP network, we uncheck the router's _____ checkbox.
    a. ISP   b. DHCP   c. Port forwarding   d. DNS

46. A user is locked out of their account after 5 unsuccessful tries to logon their account and they need a file immediately. What can we do? (circle all that apply)

a. Wait 30 hours until we can try again	b. Uncheck the account is disabled checkbox	c. Reset their password since they forgot it	d. Give them a new username

47. User must change password at next logon is the typical default for new _____.
    a. OUs   b. Groups   c. Domains   d. Users

48. What tab in the User Properties window allows the administrator to logout a user for not accessing their computer for a period of time?
   a. Member   b. General   c. Dial Up   d. Sessions

49. What binary number is the standard number 111

50. Plymouth Smith is going on vacation to Canada for a month this August. On her first day of vacation, we will check what box in the properties window?

51. How many hard drives do we need to build a RAID 5 server?

52. What predefined Windows group allows Managers to setup software for client computers in their departments but does not give them permission to do more extensive changes like administrators.

53. What password policy prevents the user from toggling password?

54. What TCP/IP utility determines that the cable is good and we can connect to the server?

55. What is the purpose of ICS?

56. What two policies define smart passwords on a 2003 server?

57. We are creating a student folder. What three users or groups should have permissions?

58. Name the four different Windows 2003 servers sold by Microsoft.

59. We need to build a small LAN that has a external network address of 198.150.10. Our internal network address is 192.168.0. Fill in the correct information for the Ext NIC card, Int NIC card and the NIC card for Computer1.

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                                                       Pri and
  ┌──────────┐ Int ┌────────┐ Ext ┌────────┐          Sec DNS:
  │ 16 port  │─────│ Server │─────│ Router │─────      65.10.2.1
  │ Switch   │     │        │     │        │           65.10.2.2
  └────┬─────┘     └────────┘     └────────┘
       │
  ┌──────────┐            ┌─────────────────────────────────────┐
  │          │            │         NIC IP: _____  │
  │          │            │         Subnet Mask IP: _____  │
  │ Computer1│            │ Ext Card Gateway IP: _____  │
  │          │            │         Preferred DNS IP: _____  │
  └──────────┘            │         Alternate DNS IP: _____  │
                          └─────────────────────────────────────┘
┌──────────────────────────┐  ┌─────────────────────────────────┐
│     Computer 1 NIC        │  │         NIC IP: _____  │
│ NIC IP: _____  │  │         Subnet Mask IP: _____  │
│ Subnet Mask IP: _____  │  │ Int Card Gateway IP: _____  │
│ Gateway IP: _____  │  │         Preferred DNS IP: _____  │
│ Preferred DNS IP: _____  │  │         Alternate DNS IP: _____  │
│ Alternate DNS IP: _____  │  └─────────────────────────────────┘
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