

Member ID: \_\_\_\_\_

Time: \_\_\_\_\_

Rank: \_\_\_\_\_



**SERVER**  
**ADMINISTRATION USING**  
**MICROSOFT®**  
**(310)**  
**REGIONAL 2023**

**Multiple Choice:**

50 @ 2 points each

\_\_\_\_\_ (100 points)

**Test Time: 60 minutes**

**GENERAL GUIDELINES:**

*Failure to adhere to any of the following rules will result in disqualification:*

1. Member must hand in this test booklet and all printouts if any. Failure to do so will result in disqualification.
2. No equipment, supplies, or materials other than those specified for this event are allowed in the testing area. No previous BPA tests and/or sample tests (handwritten, photocopied, or keyed) are allowed in the testing area.
3. Electronic devices will be monitored according to ACT standards.

**Directions:** Identify the letter of the choice that *best* completes the statement or answers the question.

1. You need to create an image file that Windows can access as if it were a CD. According to the International Organization for Standardization, which file extension should be used?
  - A. .img
  - B. .iso
  - C. .dsc
  - D. .dll
2. When joining a computer to an Active Directory domain, which of the following is NOT required?
  - A. An IP address assigned by a DHCP server in the domain
  - B. A reboot
  - C. The username and password of an account in the domain
  - D. The DNS name of the domain
3. You are troubleshooting a workstation and suspect system-file corruption. What command can be used to verify the integrity of system files and make repairs if necessary?
  - A. `dism /filechk`
  - B. `syschk /repair`
  - C. `sfc /scannow`
  - D. `chdsk /r`
4. While troubleshooting an issue you've never seen before, you find that you need assistance from someone higher up in the chain of support. Enlisting their assistance is called \_\_\_\_\_.
  - A. Escalation
  - B. Support redirection
  - C. Resource management
  - D. Outsourcing
5. When a computer is powered on, which component initializes the system hardware before the operating system starts?
  - A. `Config.sys`
  - B. Interrupt handler
  - C. Device Manager
  - D. BIOS/UEFI
6. If a Windows system is unable to boot into the OS, what is the first thing you should do?
  - A. Renew the computer's DHCP lease
  - B. Attempt to boot using the Windows installation media
  - C. Run Windows Update and install the latest updates
  - D. Format the hard drive

7. Which type of address assigned to a network adapter typically indicates that a system has failed to contact a DHCP server?
  - A. MAC address
  - B. APIPA address
  - C. IPv6 address
  - D. DNS address
8. Windows Server 2019 uses which file system by default?
  - A. NTFS
  - B. XFS
  - C. CDFS
  - D. FAT32
9. When a retailer preinstalls Windows on a system, they will often create a separate hard-drive partition that can be used to reinstall the OS if necessary. This is called the \_\_\_\_\_.
  - A. Regression partition
  - B. System partition
  - C. Reload partition
  - D. Recovery partition
10. Which tool can be used within Windows to configure a system to boot into Safe Mode with Networking on the next boot?
  - A. bootmgr.exe
  - B. schtasks.exe
  - C. msconfig.exe
  - D. autoexec.bat
11. Your workstation has Windows 10 and Ubuntu Linux installed on separate partitions. What allows you to select the operating system you wish to boot?
  - A. Virtual Machine Connection
  - B. Trusted Platform Module
  - C. Boot Loader Menu
  - D. Microsoft Management Console
12. Your system has a 32-bit version of Windows installed, and you want to upgrade to a 64-bit version. Which of the following must you perform in order to do this?
  - A. In-place upgrade
  - B. Clean installation
  - C. Dynamic upgrade
  - D. Windows Update

13. Which key is NOT typically pressed to enter the BIOS in order to make configuration changes to a system before booting the operating system?
- A. Ctrl-X
  - B. F1
  - C. Del
  - D. F2
14. BIOS stands for \_\_\_\_\_.
- A. Binary Interface Operating Specification
  - B. Basic Input/Output System
  - C. Berkeley Internet Oversight Server
  - D. Built-In Operating System
15. You wish to create a file to perform unattended installations of Windows on multiple systems. Which utility is used to create this file?
- A. Windows Deployment Administration
  - B. Windows Rapid Installation Tool
  - C. Windows Virtual Machine Creator
  - D. Windows System Image Manager
16. Your system won't boot normally into Windows. Which key should you press to access the Advanced Boot Options menu so that you can attempt to boot into Safe Mode?
- A. F8
  - B. F2
  - C. F4
  - D. F10
17. You've created a Windows image that you intend to use to deploy Windows to a number of workstations. Which tool is used to remove computer-specific information from this image?
- A. Windows Update
  - B. Diskpart
  - C. Sysprep
  - D. Windows Deployment Services
18. Which of the following allows Windows to run on many types of system hardware without requiring the OS kernel to be specially configured for every possible hardware environment?
- A. winnt.sys
  - B. hal.dll
  - C. config.sys
  - D. mmc.exe

19. The currently logged-on user does not have the required permissions to run an application. How can you run the application with elevated privileges?
- A. Launch the application from the command line using the /highpriority parameter.
  - B. Download a 64-bit version of the application and run it instead.
  - C. Hold down the Shift key when launching the application from the Start menu.
  - D. Use the Run as Administrator option.
20. Which edition of Windows Server 2022 does not require client access licenses (CALs)?
- A. Windows Server 2022 Standard
  - B. Windows Server 2022 Datacenter
  - C. Windows Server 2022 Essentials
  - D. Windows Server 2022 Cloud
21. You install Windows 10 Enterprise on your laptop without supplying a product key. How long do you have before a product key must be entered to continue to use Windows with full functionality?
- A. 120 days
  - B. 30 days
  - C. 60 days
  - D. 90 days
22. Which TCP port must be open for an SSTP VPN connection to be successfully established?
- A. 80
  - B. 1723
  - C. 443
  - D. 1024
23. Which command-line interface features cmdlets such as Get-NetAdapter and Set-WindowsProductKey?
- A. PowerShell
  - B. WindowsCLI
  - C. Hyperterminal
  - D. Cmd.exe
24. You edit the registry to enable Windows to automatically back up the system registry hives on boot. Where are these backups stored by default?
- A. C:\Windows\Registry\Backup
  - B. C:\Windows\System32\Config\RegBack
  - C. C:\Windows\RegBackup
  - D. C:\Windows\Backups\Registry

25. What is the technical term for a disk partition that has been formatted and had a drive letter assigned to it?
- A. Array
  - B. Drive
  - C. Sector
  - D. Volume
26. Faced with a Windows system that won't boot, you elect to reinstall Windows on the same drive without formatting it. What happens to the system files from the previous installation?
- A. They are deleted and overwritten by the new installation of Windows.
  - B. They are moved to C:\Windows.old.
  - C. They are moved to C:\Windows\System32\Previous.
  - D. It is not possible to reinstall Windows without first formatting the drive.
27. The `ncpa.cpl` command cannot be used to restart the Network Location Awareness service.
- A. True
  - B. False
28. Major updates to Windows client operating systems that add functionality and are released on an annual basis are called \_\_\_\_\_.
- A. Long-term updates
  - B. Servicing stack updates
  - C. Feature updates
  - D. Service packs
29. You suspect that a faulty device driver is causing Windows startup failures. Which advanced boot option can be used to generate a file listing every driver loaded during Windows startup?
- A. Enable Boot Logging
  - B. Directory Services Restore Mode
  - C. Safe Mode with Command Prompt
  - D. Disable Driver Signature Enforcement
30. Which built-in tool runs tests to determine whether the RAM in a system is defective?
- A. Memory Monitor
  - B. Performance Monitor
  - C. Windows Memory Diagnostics
  - D. Device Manager

31. Which role allows a server running Windows Server 2019 to translate computer names into IP addresses for other machines on a network?
- A. DHCP Server
  - B. DNS Server
  - C. Active Directory Domain Services
  - D. IP Address Management
32. Which of the following is a good use case for a Windows Server Core installation?
- A. A “does-everything” server for a small business with no IT staff
  - B. A dedicated fax server for a large corporation
  - C. A Remote Desktop session host
  - D. A domain controller managed remotely using Windows Admin Center
33. Encryption is natively provided by the NTFS file system.
- A. True
  - B. False
34. A user reports that she can access a particular file stored on a server from her workstation but is unable to make changes to the file. You check the file’s properties on the server and see that the user’s account has Modify permissions. Why can’t the user make changes to the file?
- A. The user’s share permissions are set to Read.
  - B. The file is corrupt.
  - C. The user is not a local administrator on her workstation.
  - D. The user does not have an account in Active Directory.
35. You have been asked to upgrade a Windows Server 2012 R2 Standard server to Windows Server 2019 Standard without losing the data stored on the server. What steps are required to accomplish the upgrade?
- A. The server must first be upgraded to Windows Server 2016 Standard, after which it can be upgraded to Windows Server 2019 Standard.
  - B. The server can’t be upgraded to Windows Server 2019, as no upgrade path exists. You must back up the data, perform a clean install of Windows Server 2019, and restore the data.
  - C. You must download the File Server Migration Toolkit from Microsoft and run it from an administrative account within Windows Server 2012 R2 to begin the upgrade.
  - D. The Windows Server 2019 installation media provides a direct upgrade path for Server 2012 R2, so an in-place upgrade may be performed with no additional steps required.



36. You need to make several major changes to a system that's currently in production. What is the first step you should take?
- A. Shut down the system to avoid interfering with production workloads.
  - B. Launch a command prompt and run `ipconfig /all` to get information about the system's network configuration.
  - C. Back up the data on the system to ensure that it isn't lost.
  - D. Attempt to ping the system from a workstation on the same network to ensure that it's able to respond.
37. You have been asked to configure a server running Windows Server 2019 Standard as a File Transfer Protocol (FTP) server. Which role will you need to add?
- A. File and Storage Services role
  - B. Web Server (IIS) role
  - C. Remote Access role
  - D. Network File System role
38. You need to remove all partitions and/or volumes from a particular disk. You launch the Diskpart utility and run `list disk` to list all disks on the system. The output indicates that disk 2 is the target disk. What is the next command you should run?
- A. `Format disk 2`
  - B. `List volume`
  - C. `Clean disk 2`
  - D. `Select disk 2`
39. You're attempting to install Windows Server 2019 Standard on a RAID volume. You create the volume using the hardware vendor's configuration utility, but the "Where do you want to install Windows?" screen doesn't list the volume. What is the most likely cause?
- A. Only Windows Server 2019 Datacenter can be installed on a RAID volume.
  - B. The RAID controller driver must be loaded for the volume to be seen.
  - C. The RAID controller has not been connected to the server's power supply.
  - D. The volume has been formatted with the ReFS file system.
40. You need to prevent devices that have BitLocker or Secure Boot disabled from accessing network resources. What server role must be installed to accomplish this?
- A. Network Access Protection Services
  - B. Host Guardian Services
  - C. Windows Platform Protection Services
  - D. Device Health Attestation Services
41. You need to install Windows on several systems without manually running through the Windows Setup process on each one. What file can you create to do this?
- A. `Unattend.xml`
  - B. `Autoinstall.sys`
  - C. `Unattend.ini`
  - D. `Autoexec.bat`

42. Which component of UEFI helps to protect against malware before the operating system starts?
- A. POST Guardian
  - B. UEFI Startup Alert Service
  - C. Secure Boot
  - D. Boot Defender
43. Where can you browse and download Windows Update packages for manual installation?
- A. A server with the Windows Server Update Services (WSUS) role installed
  - B. Any domain-joined Windows server or client, as long as Update Source Redirection is enabled in Group Policy
  - C. A server with the IIS role installed and the SoftwareDistribution folder configured as a virtual directory
  - D. The Microsoft Update Catalog website
44. You attempt to ping a domain-joined server on your local network using its DNS name. The output shows that the name is resolved to an IP address successfully, but there are no successful responses to your pings. Which of the following is a possible cause of this?
- A. The target server has remote desktop disabled.
  - B. Firewall software running on the target server is blocking ICMP traffic.
  - C. The target server's local host file has been deleted.
  - D. The host performing the ping is disconnected from the network.
45. Which process is used to run one or more Windows services?
- A. services.exe
  - B. wininit.exe
  - C. lsass.exe
  - D. svchost.exe
46. Which command will show the MAC addresses of the network adapters in a Windows system?
- A. ipconfig
  - B. ipconfig /displaydns
  - C. ipconfig /all
  - D. ipconfig /mac
47. Which command can be used to change the date and time on a Server Core installation of Windows Server 2019?
- A. sconfig
  - B. w32tm /set
  - C. date /T
  - D. sysclock /set

48. Which Windows Server role allows a server to lease IP addresses to other devices on the network?
- A. Active Directory Domain Services
  - B. DNS Server
  - C. DHCP Server
  - D. Remote Access
49. Remote Desktop Protocol uses which network port by default?
- A. TCP 443
  - B. UDP 53
  - C. UDP 4096
  - D. TCP 3389
50. You've just performed a clean install of Windows Server 2019 Datacenter on a server using the OS installation media. Which domain or workgroup is it a member of?
- A. A domain named domain.local
  - B. A workgroup named Workgroup
  - C. A workgroup named Default
  - D. A domain named ad.domain.com