**Contestant Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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

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



**SERVER ADMINISTRATION USING MICROSOFT**

(310)

**REGIONAL 2022**

**CONCEPT KNOWLEDGE:**

Multiple Choice (50 @ 2 points each) (100 points)

**TOTAL POINTS (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.
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.

**MULTIPLE CHOICE**

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

1. You are creating a CD image file called Updates. As defined in the International Organization for Standardization, which of the following should the resulting name and extension be?
   1. Updates.dmg
   2. Updates.img
   3. Updates.iso
   4. Updates.cd
2. You need to join a computer to an Active Directory (AD) domain. What is NOT required to join the computer to an AD domain?
   1. You need a DNS name for the domain to be joined
   2. You must have Internet connectivity and be capable of reaching Microsoft.com
   3. You must have an authorized user account in the domain
   4. One domain controller and a DNS server that can resolve the domain name must be online.
3. You are working with a workstation and suspect corrupted system files is causing issues. What command can be run to verify the integrity of the file system and make repairs?
   1. chkdsk /scannow
   2. sfc /scannow
   3. sfc /r
   4. chdsk /r
4. You have been assigned to solve a problem and require someone higher in the support chain to assist you with its solution. This process is called \_\_\_\_\_\_.
   1. ticket logging
   2. escalation
   3. responsibility passing
   4. issue resolution
5. What component is responsible for initializing the computer and starting the operating system?
   1. Windows Boot Loader
   2. Autoexec.bat
   3. BIOS/UEFI
   4. BootMgr
6. What is the first thing you should do if a computer system cannot boot into windows?
   1. Reinstall Windows
   2. Run System File Checker
   3. Replace the hard drive
   4. Boot from the Windows install media
7. Which of the following is used to uniquely identify a computer network adapter?
   1. MAC address
   2. Apipa address
   3. IP address
   4. Serial number
8. What is the native file system utilized by Windows Server 2019?
   1. BtrFS
   2. FAT32
   3. NTFS
   4. Ext3
9. For some retail computers, the hard drive contains a special partition used to reinstall Windows. What is this partition called?
   1. Recovery partition
   2. Reinstall partition
   3. Restore partition
   4. Rebuild partition
10. You need to set a Windows 10 computer to boot into Safe Mode with networking on the next boot. What application allows you to perform this action without a reboot?
    1. sfc.exe
    2. msconfig.exe
    3. services.msc
    4. rstrui.exe
11. What screen allows you to select the operating system on a system configured for dual boot?
    1. OS select BIOS screen
    2. Secure Boot OS page
    3. Multi-Windows Login screen
    4. Boot loader menu
12. You want to upgrade Windows to a 64-bit version on a computer that already has Windows 32-bit installed. What type of installation/upgrade is required?
    1. Clean install
    2. Dual boot
    3. In-place upgrade
    4. Standard
13. You need to access the BIOS configuration of a computer to configure a new setting and verify the BIOS version. What key is NOT typically pressed to enter the BIOS?
    1. F1
    2. F2
    3. Insert
    4. Del
14. What Windows command should be used to scan all system files for corruption?
    1. msinfo32 /verify
    2. sfc /scannow
    3. systeminfo /sysfiles
    4. chkdsk /r
15. What utility is used to create an unattended answer file to install Windows?
    1. Windows System Image Manager
    2. Windows Automated Answer Generator
    3. Windows Unattended Installation Utility
    4. Windows Deployment Tool
16. The Windows Advanced Boot Options screen can be accessed by pressing which key while Windows is loading?
    1. F4
    2. F12
    3. F10
    4. F8
17. What Microsoft utility would you use to generalize a Windows image for use as an installation template?
    1. SCVMM\_cln.exe
    2. System Cleaner
    3. Sysprep
    4. Microsoft Refresh
18. Which Windows process interfaces with computer hardware at the lowest level?
    1. Ntoskrnl.exe
    2. Hal.dll
    3. Smss.exe
    4. Winlogon.exe
19. The current logged on user does not have the required permissions to run an application. How should you get this application to run under the current logged on user account?
    1. Run the application from the command line using the /highpriority parameter
    2. Download a 64-bit version of the application and try again.
    3. Use the Run as administration option
    4. Add the current user to the Power Users group
20. What Windows Server 2019 version does NOT natively include the Hyper-V role?
    1. Windows Server 2019 Essentials
    2. Windows Server 2019 Standard
    3. Windows Server 2019 Datacenter
    4. Windows Server 2019 Web
21. When installing windows without a license how many days do you have to activate Windows 10?
    1. 7 days
    2. 30 days
    3. 45 days
    4. 60 days
22. Which naming convention is NOT recommended by Microsoft for computer names?
    1. Shorter names up to 15 characters should be used for easy typing
    2. If a DNS server is present, standard Internet characters plus special characters such as $, %, &, \* and others can be used.
    3. The maximum length for the name is 64 characters
    4. If no DNS server exists on the network, only standard Internet characters should be used.
23. What command-line interface allows you to run specialized commands called cmdlets?
    1. Command Prompt
    2. PowerShell
    3. Windows Bash
    4. WSL
24. What is the default location Windows uses to store backups of the system registry files?
    1. C:\Windows\System32\WinBackup
    2. C:Windows\System32\Config\Hive
    3. C:\Windows\RegBack
    4. C:\Windows\System32\Config\RegBack
25. Once a partition has been formatted and a drive letter assigned what is the technical term for this object?
    1. Volume
    2. Partition
    3. Root
    4. Container
26. When Windows is installed over an existing Windows installation without reformatting the hard drive where are files from the previous installation located?
    1. Temp
    2. System32
    3. Windows.old
    4. %SYSTEMROOT%
27. What console is used to enable, disable, start, or stop a service.
    1. Ncpa.cpl
    2. Services.msc
    3. DevManage.msc
    4. Taskmgr.cpl
28. Major updates to the Windows operating system are referred to by what term?
    1. System release
    2. Update pack
    3. Security release
    4. Service pack
29. Which advanced boot option in msconfig is required to troubleshoot a service that is failing to load at Windows startup?
    1. Event Viewer
    2. Boot Log
    3. Safe Mode with Networking
    4. Windows Boot Manager
30. What tool can you use to quickly identify a problem with system memory or eliminate memory as the source of a problem?
    1. Memory Diagnostics
    2. Event Viewer
    3. Last Known Good Configuration
    4. Device Manager
31. What information is required when installing an OEM version of Windows 10?
    1. Product key
    2. Installation code
    3. Receipt of purchase
    4. OEM license
32. Which of the following is a good use case for a Windows server core installation?
    1. A multi-function server.
    2. A small business server managed by a novice administrator.
    3. A server capable of being configured through multiple wizards.
    4. A large business server dedicated to web services and accessed only via the Internet.
33. What Feature is NOT provided by NTFS?
    1. Disk quotas
    2. Encryption
    3. Compression
    4. Snapshots
34. What command can be used to check the file system for errors?
    1. chkdsk
    2. System Restore
    3. msconfig
    4. sfc /scannow
35. You are required to upgrade a Windows Server 2012 R2 server to Windows Server 2019 Standard. What steps are required in order to accomplish the upgrade?
    1. The server should be updated to the latest service pack for 2012 R2, then upgraded to Server 2012, after which the server can be upgraded to Server 2019.
    2. The server must run a special upgrade while Server 2012 R2 is running, requiring the migration of server roles to the new OS and merging of configuration files.
    3. The Windows Server 2019 disk provides a direct upgrade path for Server 2012 R2, so no additional steps are required to perform the upgrade.
    4. The server can’t be upgraded to Server 2019, as no upgrade path exists. You must perform a clean install.
36. What is the first step you should do before making any major changes to a system in production?
    1. Examine the system
    2. Backup data
    3. Establish a theory
    4. Test your theory
37. You need to install File Transfer Protocol (FTP) service on a Windows Server 2019 server. What role will you need to install?
    1. Remote File Transfer role
    2. Web Server (IIS) role
    3. File and Storage Services role
    4. Network File Access role
38. When using the diskpart utility what command is used to remove all partitions and/or volumes from the selected disk?
    1. Format
    2. Select partition
    3. Clean
    4. Delete partition primary
39. While installing Windows Server 2019 on a RAID volume the installation wizard does not find a valid target disk. What is the most likely cause?
    1. Windows Server 2019 does not support SCSI based hard drives.
    2. The BIOS does not recognize the SCSI controller and has not enabled the device.
    3. Windows Server 2019 requires a driver for working with the SCSI controller
    4. The drive itself is configured as a slave by cable position, rather than master.
40. What server role must be installed to restrict access to server resources for client devices without a TPM or BitLocker drive encryption configured?
    1. File and Storage Services
    2. Host Guardian Services
    3. Multipoint Services
    4. Device Health Attestation Services
41. What is the name of the answer file used to perform an unattended installation of Windows?
    1. Unattend.xml
    2. Answer.txt
    3. Unattend.ini
    4. Answer.bat
42. What component of UEFI helps to prevent malware from hijacking a system during the boot process?
    1. Execute Disable Bit
    2. Secure Boot
    3. UEFI Defender
    4. Bootlocker
43. Where do you check the latest hardware compatibility list before installing Windows Server 2019?
    1. Various hardware vendor web pages
    2. Windows Hardware Check App
    3. Microsoft Hardware Compatibility List
    4. Windows Server Catalog website
44. What keypress causes the Windows Boot Manager to appear during the Windows startup process?
    1. F10
    2. Spacebar
    3. F5
    4. Enter
45. What Windows process is responsible for user authentication?
    1. Smss.exe
    2. Csrss.exe
    3. Lass.exe
    4. Ntoskrnl.exe
46. What symptom could indicate the MBR is damaged?
    1. Invalid partition table error
    2. Loud clicking noise
    3. RAID not found error message
    4. Invalid boot disk error
47. What command can be used to change the date and time on a Windows Server 2019 Core installation?
    1. Datetime
    2. Control timedate.cpl
    3. Rundll32,datetime
    4. Set-Time
48. What Windows Server role can be used to safeguard information through the use of encryption, user authentication, and security certificates?
    1. Active Directory Domain Services
    2. Active Directory Certificate Services
    3. Active Directory Federation Services
    4. Active Directory Rights Management Services
49. When deploying an operating system image over the network what version of Windows will be run on the target computer?
    1. Windows PE
    2. Windows 10 Starter
    3. Windows ME
    4. Windows XP
50. When installing Windows Server 2019 and no domain or workgroup is specified what network name is used by default?
    1. In a workgroup called Workgroup
    2. In the Microsoft Azure domain
    3. In a workgroup called Contoso
    4. In the Example.com domain