

Member ID: _____

Time: _____

Rank: _____



Server Administration using Microsoft (310)

Regional 2024

CONCEPT KNOWLEDGE:

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. Contestant 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.
4. For any interest calculations, assume a 360-day year.
5. Unless otherwise stated, assume that all plant assets were purchased on January 1.
6. Unless otherwise stated, assume that the overtime rate is 1.5 regular time pay for any hours worked in excess of 40 hours per week.

Multiple Choice Questions

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

1. Which of the following is considered a strong password?
 - A. Password123
 - B. P@\$w0rd!
 - C. 123456789
 - D. MyDog'sName
2. Which of the following password lengths is generally recommended for strong passwords?
 - A. 4 characters
 - B. 8 characters
 - C. 12 characters
 - D. 16 characters
3. Which of the following is a primary function of the Windows DNS server?
 - A. Authenticating user credentials
 - B. Translating domain names into IP addresses
 - C. Managing network firewalls
 - D. Controlling access to shared folders
4. Which of the following DNS record types is used to identify the mail server for a domain?
 - A. A
 - B. MX
 - C. CNAME
 - D. PTR
5. In Windows DNS, what is the purpose of a forwarder?
 - A. To resolve external DNS queries
 - B. To replicate DNS zones between servers
 - C. To configure conditional forwarding rules
 - D. To cache DNS responses locally
6. When troubleshooting network connectivity issues, which of the following commands can be used to check if a remote host is reachable?
 - A. ping
 - B. ipconfig
 - C. nslookup
 - D. tracert

7. Which of the following commands is used to display the IP configuration information of a Windows computer?
 - A. ifconfig
 - B. ipconfig
 - C. netstat
 - D. ping
8. What is the term for the process where data is distributed across multiple physical disks to increase performance and redundancy?
 - A. Striping
 - B. Mirroring
 - C. Parity
 - D. Chunking
9. Which RAID level uses parity for data redundancy and distributes it across all disks?
 - A. RAID 0
 - B. RAID 1
 - C. RAID 5
 - D. RAID 10
10. Which RAID level offers no data redundancy and simply concatenates the storage space of multiple disks?
 - A. RAID 0
 - B. RAID 1
 - C. RAID 5
 - D. RAID 6
11. In the context of RAID technology, what does the acronym RAID stand for?
 - A. Rapid Array of Inexpensive Disks
 - B. Redundant Array of Independent Drives
 - C. Redundant Array of Inexpensive Disks
 - D. Rapid Array of Independent Drives
12. Which of the following is a characteristic of cloud computing?
 - A. Reduced control over data
 - B. Decreased scalability
 - C. Inability to access data remotely
 - D. Low initial investment cost
13. What is the primary purpose of a VLAN?
 - A. To provide a single broadcast domain across multiple physical networks
 - B. To reduce the size of broadcast domains
 - C. To increase the number of IP addresses available on a network
 - D. To increase network security by encrypting all data

14. What shortcut key can be used to open the Task Manager in Windows?
 - A. Ctrl + Shift + Esc
 - B. Ctrl + Alt + T
 - C. Alt + F4
 - D. Windows key + R
15. What tab in Task Manager shows the overall performance of system components such as CPU, memory, and disk usage?
 - A. Applications
 - B. Services
 - C. Performance
 - D. Details
16. The Task Manager can be used to end:
 - A. Running applications only
 - B. Background processes only
 - C. Both running applications and background processes
 - D. Neither running applications nor background processes
17. Which of the following would not typically be found in the Processes tab of the Task Manager?
 - A. CPU usage
 - B. Network usage
 - C. GPU temperature
 - D. Memory usage
18. Which of the following is not a type of Group Policy setting?
 - A. Administrative Templates
 - B. Security settings
 - C. Software settings
 - D. Privacy settings
19. What command-line tool can be used to update Group Policy settings?
 - A. gpupdate
 - B. gprefresh
 - C. gpmodify
 - D. gpchange
20. What's the purpose of the "gpresult" command?
 - A. To manually update Group Policy
 - B. To display the Resultant Set of Policy information
 - C. To check the status of a specific GPO
 - D. To restart the Group Policy service

21. In the context of Active Directory, what does "OU" stand for?
- A. Operating Unit
 - B. Organizational Unit
 - C. Operation Unit
 - D. Organization User
22. In Windows, what does the command 'sfc /scannow' do?
- A. It scans for and fixes problems with system files
 - B. It scans for malware and removes them
 - C. It checks the hard drive for errors and fixes them
 - D. It removes unnecessary files to free up disk space
23. Which of the following tools in Windows Server is commonly used for monitoring server performance?
- A. Task Manager
 - B. Windows Admin Center
 - C. Performance Monitor
 - D. Command Prompt
24. What is the primary role of the IIS (Internet Information Services) on a Windows Server?
- A. It is used for file sharing
 - B. It serves as an email server
 - C. It is used to host websites and web applications
 - D. It acts as a firewall
25. Which Windows Server feature allows you to manage permissions for accessing websites?
- A. Network Policy and Access Services
 - B. Active Directory
 - C. Remote Desktop Services
 - D. DNS Server
26. If a website hosted on a Windows Server is not accessible, which tool can be used to check if the server's network connection is up?
- A. Performance Monitor
 - B. Event Viewer
 - C. Command Prompt using the 'ping' command
 - D. Active Directory
27. What component in IIS is used to prevent unauthorized access to certain areas of your website?
- A. Authentication
 - B. Directory Browsing
 - C. Compression
 - D. HTTP Redirect

28. In Windows Server, which service would you configure to translate domain names into IP addresses?
- A. Internet Information Services (IIS)
 - B. Active Directory
 - C. DHCP Server
 - D. DNS Server
29. Which of the following Windows Server roles enables you to manage digital certificates?
- A. Remote Desktop Services
 - B. Active Directory Certificate Services
 - C. Web Server (IIS)
 - D. Network Policy and Access Services
30. Which of the following is responsible for managing hardware devices in an operating system?
- A. Device Manager
 - B. Control Panel
 - C. Task Manager
 - D. Registry Editor
31. What is the purpose of a device driver?
- A. To connect hardware devices physically
 - B. To configure network settings
 - C. To allow communication between the operating system and hardware devices
 - D. To manage power settings of devices
32. Which Windows utility can be used to install and update device drivers?
- A. Windows Update
 - B. Device Manager
 - C. Control Panel
 - D. Task Manager
33. Which of the following can be a common cause of hardware device conflicts in a computer system?
- A. Incompatible drivers
 - B. High network traffic
 - C. Low disk space
 - D. Insufficient RAM
34. You have just installed a new graphics card in your computer, but the screen remains blank. What should you check first?
- A. Monitor cable connections
 - B. Network settings
 - C. Power supply unit
 - D. Sound card drivers

35. Which deployment method is commonly used for deploying Windows Server to multiple physical servers simultaneously?
- A. Windows Deployment Services (WDS)
 - B. Windows Server Update Services (WSUS)
 - C. System Center Configuration Manager (SCCM)
 - D. Windows Automated Deployment Kit (ADK)
36. Which deployment option allows administrators to perform an in-place upgrade of an existing Windows Server installation?
- A. Clean installation
 - B. Side-by-side installation
 - C. Upgrade installation
 - D. Rollback installation
37. Which PowerShell cmdlet is used to add a new Windows Server role or feature?
- A. Install-WindowsFeature
 - B. Add-WindowsFeature
 - C. Enable-WindowsFeature
 - D. Import-WindowsFeature
38. If a Windows computer is unable to obtain an IP address automatically, which of the following could be the cause?
- A. Faulty network cable
 - B. Incorrect DNS server address
 - C. Disabled network adapter
 - D. DHCP server outage
39. Which Windows utility can be used to modify local security policy settings?
- A. System Configuration
 - B. Task Manager
 - C. Group Policy Editor
 - D. Device Manager
40. Which security policy can be configured to enforce password complexity requirements?
- A. Account Lockout Policy
 - B. Password Policy
 - C. Security Options
 - D. Audit Policy
41. Which policy determines the password history requirements?
- A. Account Lockout Policy
 - B. Password Policy
 - C. User Rights Assignment
 - D. Security Options

42. Which policy controls the ability to modify file and folder permissions?
- A. Account Lockout Policy
 - B. Password Policy
 - C. User Rights Assignment
 - D. Security Options
43. A client is unable to connect to the Domain Controller. What Windows command would you use to verify if the Domain Controller is accessible over the network?
- A. ping
 - B. netstat
 - C. nslookup
 - D. ipconfig
44. Which protocol does Active Directory use for directory services?
- A. HTTP
 - B. HTTPS
 - C. LDAP
 - D. SNMP
45. A user is unable to log into their account. You check and their account is not locked out. What is another common cause for this issue?
- A. The user's password has expired.
 - B. The user's computer is turned off.
 - C. The user's home folder is full.
 - D. The user's screen is broken.
46. What could be the reason if a Domain Controller is unable to replicate with its partners?
- A. The server has run out of storage
 - B. The server's clock is not synchronized
 - C. The server has been demoted
 - D. The server is not a global catalog server
47. Which service in Windows Server is responsible for time synchronization within a domain?
- A. Windows Time service
 - B. Network Time Protocol service
 - C. Kerberos
 - D. Active Directory Domain Service
48. What utility can you use to check the health of a domain controller?
- A. ntdsutil
 - B. netdom
 - C. dcdiag
 - D. dsquery

49. You want to encrypt a folder on a Windows Server. Which of the following methods can be used to apply EFS encryption to the folder?
- A. Right-click the folder, select Properties, and enable the "Encrypt contents to secure data" option.
 - B. Open Command Prompt and use the "encrypt-folder" command.
 - C. Access the Local Group Policy Editor and enable the "EFS Encryption" policy for the folder.
 - D. Use the Disk Management utility to encrypt the entire disk containing the folder.
50. What is the recommended way to configure a printer for multiple departments, ensuring each department can only print to their designated printer?
- A. Configure access control lists (ACLs) on the printers.
 - B. Use printer pooling to assign printers to each department.
 - C. Create separate printer shares for each department.
 - D. Install virtual printers for each department.