**Module 12: Installation, Storage, and Compute with Windows Server**

**1. What two options are provided in the type of installation window during Windows Server 2016 installation?**

* Server Core
* Server with Desktop Experience (GUI)

**2. Write the step How to configure server step by step?**

1. Set computer name
2. Configure IP address
3. Join domain or workgroup
4. Install roles and features
5. Configure updates and security
6. Enable remote management

**3. What are the Pre installation tasks?**

* Verify hardware requirements
* Backup existing data
* Check compatibility
* Choose installation type and edition
* Prepare installation media

**4. What are the Post installation tasks?**

* Install updates
* Activate Windows
* Configure IP settings
* Rename server (if needed)
* Join domain
* Install roles/features

**5. What is the standard upgrade path for Windows Server?**

* Windows Server 2012 → 2016
* Windows Server 2008 R2 → 2012 → 2016 (indirectly)

**6. What is the Physical structure of AD?**

* Domain controllers
* Sites
* Subnets

**7. What are the Logical components of Active Directory?**

* Forest
* Tree
* Domain
* Organizational Units (OUs)
* Objects

**8. What is the Full form of LDAP?**

* Lightweight Directory Access Protocol

**9. What is the location of the AD database?**

* C:\Windows\NTDS\NTDS.dit

**10. What is child DC?**

* A domain controller in a child domain within a domain tree.

**11. Explain the term forest in AD**

* A forest is the top-level container in Active Directory that holds one or more domain trees, sharing a common schema and global catalog.

**12. What is Active Directory? Check all that apply.**  
✔ A Windows-only implementation of a directory server  
✔ Microsoft's implementation of a directory server  
✔ An LDAP-compatible directory server

**13. When you create an Active Directory domain, what's the name of the default user account?**

* **Superuser**
* **Root**
* **Username**
* **Administrator**
* Administrator

**14. AD domain provides which of the following advantages? Check all that apply.**  
✔ Centralized authentication  
✔ More detailed logging  
✔ Centralized management with GPOs

**15. What are the minimum hardware requirements for installing Windows Server 2016?**

* 1.4 GHz 64-bit processor
* 512 MB RAM (2 GB for GUI)
* 32 GB disk space
* Ethernet adapter

**16. Explain the different editions of Windows Server 2016 and their features.**

* **Datacenter**: Unlimited virtualization, advanced features
* **Standard**: Limited virtualization, full Windows features
* **Essentials**: For small businesses, up to 25 users/50 devices

**17. Walk through the steps of installing Windows Server 2016 using GUI mode.**

1. Boot from media
2. Choose language and time
3. Click “Install Now”
4. Select “Server with Desktop Experience”
5. Accept license
6. Choose partition
7. Complete setup and set Administrator password

**18. Describe the steps for installing Windows Server 2016 in Server Core mode.**

1. Boot from media
2. Select “Windows Server 2016” (Core)
3. Proceed with installation
4. Use command-line or PowerShell for configuration

**19. How do you configure network settings during Windows Server 2016 installation?**

* After installation, use **sconfig** (in Core) or **Control Panel > Network** (GUI) to assign static IP, DNS, etc.

**20. Explain the process of promoting a Windows Server to a domain controller.**

1. Install **AD DS role**
2. Run **Promote this server to a domain controller**
3. Choose domain/forest options
4. Set DSRM password
5. Complete wizard and restart

**21. How do you create a new Active Directory user account in Windows Server?**

* Open **Active Directory Users and Computers**
* Right-click container/OU → New → User
* Fill in details and set password

**22. Explain the process of creating and managing Group Policy Objects (GPOs) in Windows Server 2016 or 2019.**

1. Open **Group Policy Management Console (GPMC)**
2. Right-click domain/OU → Create GPO
3. Edit GPO to configure settings
4. Link GPO to appropriate OU/domain

**23. What are Organizational Units (OUs) in Active Directory, and how do you use them?**

* OUs are containers used to organize users, groups, and computers for easier management and to apply GPOs.

**24. Describe the process of delegating administrative privileges in Active Directory.**

1. Open **AD Users and Computers**
2. Right-click an OU → Delegate Control
3. Use the wizard to assign specific permissions to a user or group