

**✓ Part I: Short Questions**

**Q1. What is Active Directory?**

- **Active Directory (AD)** is a Microsoft service that stores and organizes information about network objects (users, groups, computers).
  - Provides **centralized authentication and management**.
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**Q2. Write two roles of Active Directory.**

1. Provides **centralized user authentication**.
  2. Manages network resources (files, printers, policies).
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**Q3. Describe the function of Active Directory Domain Services (AD DS) in a domain.**

- **AD DS** stores directory data and manages communication between domain controllers and users.
  - Functions:
    1. User logon authentication.
    2. Enforcing group policies.
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**Q4. What is the feature of Active Directory?**

- Hierarchical organization (forest, domains, OUs).
  - Centralized management of users and devices.
  - Scalability for large networks.
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**Q5. What are the services of Active Directory?**

1. **AD DS** – Authentication and directory management.
  2. **AD LDS** – Lightweight directory services.
  3. **AD CS** – Certificate services.
  4. **AD FS** – Federation services (single sign-on).
  5. **AD RMS** – Rights management.
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**Q6. What is the role of Active Directory?**

- Provides **centralized security and resource management** in a Windows Server network.
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**Q7. Define User.**

- A **user** is an object in Active Directory representing a person who can log in and access network resources.
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**Q8. Describe DHCP.**

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- **Dynamic Host Configuration Protocol** automatically assigns IP addresses and network settings to clients.
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### Q9. Define DNS.

- **Domain Name System** translates domain names (example.com) into IP addresses (192.168.1.1).
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### Q10. Define Groups.

- A **group** is a collection of users in Active Directory for easy management and permission assignment.
  - Example: "IT Staff" group with access to IT resources.
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## ✔ Part II: Long Questions

### Q1. What is Active Directory? Also describe its advantages and disadvantages.

- **Definition:** A Microsoft service for centralized storage and management of network objects.
  - **Advantages:**
    - Centralized authentication.
    - Easy management of resources.
    - Enhanced security with group policies.
    - Scalable for large organizations.
  - **Disadvantages:**
    - Complex to configure.
    - Server failure affects entire domain.
    - Requires trained administrators.
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### Q2. Write down the features in Windows Server 2008 R2.

1. **Improved Active Directory Administrative Center.**
  2. **Read-Only Domain Controller (RODC)** for branch offices.
  3. **Fine-grained password policies.**
  4. **AD Recycle Bin** for restoring deleted objects.
  5. **Improved Group Policy management.**
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### Q3. Write down the installation steps of Active Directory.

1. Open **Server Manager** → **Roles** → **Add Roles**.
2. Select **Active Directory Domain Services**.
3. Follow wizard and install AD DS role.
4. Run dcpromo command.
5. Create a new forest/domain.
6. Set domain name (e.g., exam.com).

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7. Configure DNS and database paths.
  8. Set Directory Services Restore Mode password.
  9. Restart system → Domain Controller ready.
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### Q4. Write down the configuration steps of Active Directory.

1. Open **Active Directory Users and Computers**.
  2. Create **OUs (Organizational Units)**.
  3. Add **Users and Groups**.
  4. Apply **Group Policies** using GPMC.
  5. Configure DNS/DHCP if required.
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### Q5. Write down the de-installation steps of Active Directory.

1. Run dcpromo command.
  2. Select "Remove Active Directory".
  3. If last domain controller → remove forest.
  4. Provide admin password.
  5. Demote server.
  6. Restart system → AD removed.
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### ✦ Extra Important Questions

#### Q1. What is an Organizational Unit (OU)?

- A container in AD used to organize users, groups, and computers.

#### Q2. What is Group Policy in Active Directory?

- A feature to enforce **security and configuration settings** across all users/computers.

#### Q3. What is difference between Domain, Tree, and Forest in AD?

- **Domain:** A group of network objects.
- **Tree:** A collection of domains in a hierarchy.
- **Forest:** A collection of trees that share a schema.

#### Q4. What is Read-Only Domain Controller (RODC)?

- A domain controller that holds a read-only copy of Active Directory, used in branch offices for security.