Part-A

In operating systems, what is the purpose of authentication?
a) To create new users

- b) To verify user identities before granting access
- c) To update system software
- d) To monitor network traffic

In a profile, which parameter is used to define password expiration policy?

- a) PASSWORD MAX LENGTH
- b) PASSWORD LIFE TIME
- c) PASSWORD_COMPLEXITY
- d) PASSWORD_HISTORY

Remote users typically access the database via

- a) Direct login to the database server
- b) VPN or secure shell connections
- c) Local area network
- d) Physical presence in the server room

The primary role of a database link in Oracle is to

- a) Connect two different databases within the same server
- b) Link SQL Server databases
- c) Access data from a remote database
- d) Backup database tables

users are created by the database management system by default

- a) Administrative
- b) Custom
- c) Default
- d) Remote

In SQL Server, which feature is used to implement column-level security?

- a) Row-Level Security (RLS)
- b) Transparent Data Encryption (TDE)
- c) Dynamic Data Masking
- d) Always Encrypted

Virtual Private Database (VPD) is primarily used to

- a) Encrypt data stored in the database
- b) Allow different users to view different data from the same table
- c) Compress database storage
- d) Enhance database performance

Application contexts in SQL Server are typically used for:

- a) Data encryption
- b) User authentication
- c) Defining session-specific information
- d) Indexing

In the context of application security, which of the following is an example of an application type?

- a) Web application
- b) Database server
- c) Operating system
- d) Network switch

VPD policies are often applied using which database feature to filter rows based on user identity?

- a) Database Link
- b) Oracle Label Security
- c) Fine-grained Access Control (FGAC)
- d) Materialized Views

Part-B

Answer any two questions

- 1.Discuss the role of profiles in managing database users. How are they used to enforce password policies?
- 2. Compare default users and remote users in a database system.
- 3.Describe the process of creating a new user in SQL Server.

Part-c

- 1.Explain the differences between full database encryption and column-level encryption.
- 2.Discuss the role of application contexts in managing security within an application.
- 3.Describe the process of implementing column-level security in SQL Server.

Part-D

1.(A) Describe the steps you would take to create, manage, and secure user accounts.

(OR)

- (B) Explain the process of granting and revoking privileges and roles. How does this process help in maintaining database security?
- 2.(A) Discuss the various application security models and how they help in securing enterprise applications.

(OR)

(B) Explain how SQL Server's Policy Manager can be used to define and enforce row and column-level security. Provide examples of how policies can be granted and revoked.