

# 22 Lecture - CS403

## Important Mcqs

1. Which of the following is NOT a consideration when designing the physical database?

- a) Choosing the appropriate storage structures
- b) Backup and recovery strategies
- c) Logical relationships between entities
- d) File organizations

Answer: c) Logical relationships between entities

Which of the following storage structures is designed for fast data access and retrieval?

- a) Heap file
- b) Hash file
- c) B-tree file
- d) Sequential file

Answer: c) B-tree file

Which of the following indexing methods is designed for exact match queries?

- a) Hash index
- b) B-tree index
- c) Bitmap index
- d) Clustered index

Answer: a) Hash index

Which of the following file organizations is designed for fast retrieval of data in sorted order?

- a) Heap file
- b) Hash file
- c) B-tree file
- d) Sequential file

Answer: d) Sequential file

Which of the following partitioning techniques divides data based on ranges of values in a column?

- a) List partitioning
- b) Hash partitioning
- c) Range partitioning
- d) Round-robin partitioning

Answer: c) Range partitioning

Which of the following replication techniques involves writing to all copies of the database simultaneously?

- a) Snapshot replication
- b) Merge replication
- c) Transactional replication
- d) Peer-to-peer replication

Answer: d) Peer-to-peer replication

Which of the following backup strategies involves taking a complete backup of the

**database?**

- a) Full backup
- b) Incremental backup
- c) Differential backup
- d) Copy backup

**Answer: a) Full backup**

**Which of the following recovery strategies involves restoring the database to a previous point in time?**

- a) Rollback
- b) Recovery
- c) Restart
- d) Checkpoint

**Answer: b) Recovery**

**Which of the following factors does NOT affect database performance?**

- a) Hardware
- b) Software
- c) User interface design
- d) Database design

**Answer: c) User interface design**

**Which of the following tools can be used to monitor database performance?**

- a) SQL Server Profiler
- b) SQL Server Management Studio
- c) SQL Server Configuration Manager
- d) SQL Server Data Tools

**Answer: a) SQL Server Profiler**