B. Sc. (I.T.) (Sem. VI) (CBCS) Examination

August – 2019

CS - 31 : MS SQL Server 2005 Database Administration

Faculty Code : 003
Subject Code : 004602

Time : $2\frac{1}{2}$ Hours]   [Total Marks : 70

1   Answer the following questions :   **20**

(1) _____ allow us to create a virtual table.

(2) RAID _____ level provides stripping with mirroring.

(3) RAID stands for _____

(4) DBCC stands for _____

(5) _____ lock applies to set of eight contiguous pages.

(6) ACID stands for _____

(7) T-SQL stands for _____

(8) _____ extension is used by primary database file in SQL server.

(9) SQL SERVER database uses _____ files.

(10) OLAP stands for _____

(11) NLB stands for _____

(12) In _____ type of backup only modification/changes made in database are taken.

(13) In recovery process of SQL database server _____ phases are there.

(14) The strictest transaction isolation level provided by SQL Server is _____.

(15) _____ lock is used for read-only operations.

(16) List out type of lock in SQL server.

(17) Write T-SQL statement for creating full backup

(18) What is transaction?

(19) What is backup?

(20) What is SAN?

2 **(A)** Answer the following questions : (Any **Three**)   **6**

     (1) State the editions of SQL Server. Explain any two.

     (2) Explain seek time, rotational latency time and transfer time.

     (3) What is file and filegroup restore?

     (4) Define disk drive structure.

     (5) Explain advantages of locking on OLTP.

     (6) Explain filegroup structure.

  (B) Answer the following questions : (Any **Three**)   **9**

     (1) Explain system databases.

     (2) What is log backup?

     (3) Explain basic duties of DBA.

     (4) Explain different level of lock.

     (5) Explain ACID properties.

     (6) What is full text index?

  (C) Answer the following questions : (Any **Two**)   **10**

     (1) List out types of DBA. Explain any three types of DBA in detail.

     (2) Write a short note on SAN with advantages.

     (3) Write a short note on index architecture.

     (4) What is Index? Explain types of index.

     (5) Explain database mirroring with figure.

3 **(A)** Answer the following questions : (Any **Three**)   **6**

     (1) Give definition: Dirty Read, Phantom Read.

     (2) Explain failover clustering.

     (3) Explain responsibilities of DBA.

     (4) Explain any two DBCC commands.

     (5) Explain any two index maintenances task.

     (6) Explain locking mechanism.

(B) Answer the following questions : (Any **Three**)   9

    (1) Explain installation of SQL server.

    (2) What is database snapshot? Explain its advantages.

    (3) Write a short note on failover clustering.

    (4) Explain licensing process in SQL server.

    (5) What is RAID? Explain any two RAID levels.

    (6) State the index mechanism task. Explain any two.

(C) Answer the following questions : (Any **Two**)   10

    (1) Explain page and piecemeal restore.

    (2) Explain indexed view.

    (3) What is backup? Explain types of backup.

    (4) Explain isolation levels.

    (5) What is replication? Explain types of it.

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