PA-003-004602   Seat No. _____

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

March / April - 2020

CS - 31 : MS SQL Server 2005 Database Administration

(Old Course)

Faculty Code : 003

Subject Code : 004602

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

1 Attempt the following :   **20**

(1) What is OLAP?

(2) Give the full form of ETL.

(3) Give the full form of DBCC.

(4) What is Rotational Latency?

(5) What is full text index?

(6) What is the basic function for model database?

(7) Write full form of RPM.

(8) What is DML? List out DML commands.

(9) SQL Server is provided by _____ Company.

(10) Write full form of SSAS and SSIS.

(11) Which RAID level supports only Mirroring?

(12) An SQL SERVER 2005 Language that adds programming elements like parameters, variables, IF, WHILE Loops, and so forth, to the basic capabilities of SQL is called?

(13) What is cluster?

(14) What is Snapshot?

(15) What is the full form of ACID?

(16) List different SQL Editions.

(17) The root nodes to the leaf node via the _____ nodes.

(18) List out all the Lock Modes.

(19) Which Edition is used for testing and development purpose?

(20) SQL Server automatically creates an index on Primary Key? True or False

2 (A) Attempt the following : (Any **Three**)   **6**

    (1) Differentiate: OLTP and OLAP System

    (2) List out the Editions of SQL SERVER. Explain any two of them.

    (3) What is File Group? Explain the use of Primary file and Log file.

    (4) Discuss Shared Lock with suitable example.

    (5) What is disk drive basic?

    (6) Explain DBCC DBREINDEX and DBCC CHECKDB

(B) Attempt the following : (Any **Three**)   **9**

    (1) Explain System Databases.

    (2) What is Transaction? Explain ACID Properties of Transaction.

    (3) What is Backup? Explain Differential Backup with an appropriate figure.

    (4) Explain Row level lock and Table level lock.

    (5) What is Full-text Search Index in SQL SERVER?

    (6) What is Database Snapshot? How to create a Database Snapshot?

(C) Attempt the following : (Any **Two**)   **10**

    (1) Explain SAN with an appropriate figure.

    (2) Explain RAID 0 and RAID 1 with suitable example.

    (3) What is an Index? Explain Clustered Index and Non Clustered Index

    (4) Explain Four Basic types of Isolation Levels in SQL SERVER.

    (5) Explain Database Mirroring with appropriate figure.

3 (A) Attempt the following : (Any **Three**)   **6**

     (1) Windows Authentication Mode.

     (2) Discuss Dirty Reads and Non Repeatable Read Problem.

     (3) Explain the Duties of Architect DBA and Developer DBA.

     (4) List out the Features of SQL SERVER 2005.

     (5) What is the work of MASTER DB in SQL Server?

     (6) List out the Data Types which are supported by SQL SERVER 2005.

  (B) Attempt the following : (Any **Three**)   **9**

     (1) Explain Indexed View.

     (2) How to create a Database in SQL SERVER?

     (3) Write down steps to create an Index in SQL SERVER.

     (4) Explain Snapshot New Isolation Level.

     (5) Write a Short note on Log Shipping.

     (6) Explain Simple Recovery Model.

  (C) Attempt the following : (Any **Two**)   **10**

     (1) What is Replication? Explain all three types of Replications.

     (2) Explain Fail Over Clustering in detail.

     (3) What is Restore? Explain Restore Phases.

     (4) Write down the steps of Installation of SQL SERVER 2005.

     (5) What is Recovery? Explain Full and Bulk logging Recovery model.

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