B. C. A. (Sem. VI) (CBCS) Examination

March / April - 2016

CS-33 : Administration of SQL Server - 2012

Faculty Code : 003
Subject Code : 003622

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

1   Attempt the following :   **20**

    (1)   Which one of the following is not a type of standby servers?

       (A) Hot Standby   (B) Warm Standby

       (C) Cold Standby   (D) Freeze Standby

    (2)   _____ is not a type of DBA.

       (A) Development   (B) Architect

       (C) Deployment   (D) Production

    (3)   _____DBA provides knowledge and expertise in developing applications.

       (A) Production   (B) Architect

       (C) Development   (D) None

    (4)   _____ DBCC command is used to perform database reorganization periodically.

       (A) DBCC Reindex

       (B) DBCC INDEXDEFRAG

       (C) DBCC PROCACHE

       (D) DBCC SHOWCONTIG

    (5)   DNS stands for _____

       (A) Domain Name Server

       (B) Data Name System

       (C) Data Name Server

       (D) Domain Name System

(6) Which one of the following levels is also known as mirroring with striping?

    (A) Level 0   (B) Level 1

    (C) Level 3   (D) Level 10

(7) What are the advantages of SAN?

    (A) High speed storage system

    (B) Increases network bandwidth and reliability of data I/O

    (C) Both (A) and (B)

    (D) None

(8) RAID stands for

    (A) Redundant Array of Independent Disk

    (B) Redundant Array of Important Disk

    (C) Redundant Array of Independent Disk

    (D) Random Array of Independent Disk

(9) _____ is a read only static view of a database.

    (A) Snapshot   (B) Primary File

    (C) Secondary File   (D) Transaction Log File

(10) Which command is used to shrink the database automatically?

    (A) SHRINK   (B) DB_SHRINK

    (C) AUTO_SHRINK   (D) SHRINK_DB

(11) Which of the following is a type of backup?

    (A) Full Database Backup

    (B) Data Backup

    (C) Table Backup

    (D) All

(12) Full form of LSN is _____

    (A) Log Serial Number   (B) Log Sequence Number

    (C) List Serial Number   (D) List Sequence Number

(13) To create a partial backup, which option is used with Backup T-SQL statement?

    (A) Partial backup

    (B) Readonly_Filegroups

    (C) Read_Write_Filegroups

    (D) Write_Filegroups

(14) Which recovery model doesn't allow log file backup?

    (A) Bulk-logged model

    (B) Full Recovery model

    (C) Transaction Log model

    (D) Simple model

(15) _____ Index is used to perform search on text data.

    (A) Full text Index

    (B) Clustered Index

    (C) Non Clustered Index

    (D) Indexed View

(16) In ACID property 'A' stands for

    (A) Action   (B) Atom

    (C) Atomicity   (D) Acidic

(17) Which of the following is a type of lock?

    (A) Exclusive   (B) Shared

    (C) Intent   (D) All

(18) _____ is not a role of server in database mirroring configurations.

    (A) Principal   (B) Client

    (C) Mirror   (D) Witness

(19) _____ is types of replication.

    (A) Merge   (B) Transactional

    (C) Snapshot   (D) All

(20) By default SQL Server has _____ isolation level.

    (A) Read Committed   (B) Read Uncommitted

    (C) Repeatable Read   (D) Serializable

2   (a) Attempt any three: 6

    (1) Explain different editions of SQL Server 2012.

    (2) Explain advantages of Transactional log backup.

    (3) Write a note on OLAP DBA.

    (4) Explain scale up and scale out.

    (5) What is File & Page Restore?

    (6) Explain Basic DBCC Commands.

(b) Attempt any **three** :   9
    (1) Explain Index Architecture.
    (2) Difference between Clustered Index v/s Non-Clustered Index.
    (3) What are basic duties of DBA?
    (4) How to Shrink & Grow Database? Explain it.
    (5) Write a note on Isolation Levels in SQL Server 2012.
    (6) Explain Database snapshot.

(c) Attempt any two: 10
    (1) Explain RAID and its levels in detail.
    (2) Write steps for installing and upgrading SQL Server 2012.
    (3) Explain ACID properties.
    (4) What is Backup? Explain requirement of Backup.
    (5) Write a note on Replication and its types.

3 (a) Attempt any three :   6
    (1) Explain Filestream and Filetable.
    (2) Write a note on Log Shipping.
    (3) Explain Restore and Recovery of Database.
    (4) Explain ETL DBA and its process.
    (5) What are installation requirement of SQL Server 2012 ?
    (6) What are advantages of SAN ?

(b) Attempt any three :   9
    (1) Write a note on Disaster Recovery.
    (2) Explain fundamental of I/O.
    (3) Explain Indexed Views.
    (4) Write a note on Database Mirroring.
    (5) Explain DNS and IP Benchmarking.
    (6) Explain anatomy of B-Tree Structure.

(c) Attempt any two :   10
    (1) Write a note on Failover Clustering.
    (2) Explain Locks with Row, Page & Table level.
    (3) Explain windows cluster configuration.
    (4) How to view database details using different kind of graphs ? Explain it.
    (5) Write a note on Index Tuning.

———