



**AAI-003-003622**

Seat No. \_\_\_\_\_

**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.