

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

**SB-106**

October-2017

**B.C.A., Sem.-VI**

**CC-308 : Database Administration**

**Time : 3 Hours]**

**[Max. Marks : 70**

- Instructions :**
- (1) Attempt **all** questions.
  - (2) Make suitable assumptions whenever necessary.
  - (3) Figures to the right indicate full marks.

1. (A) Explain CREATE DATABASE statement with syntax. **8**

**OR**

Define Tablespace. Explain various types of tablespaces. Write syntax of CREATE TABLESPACE.

- (B) Explain following background processes : DBWR, CKPT and ARCH. **6**

**OR**

Explain how to move tablespace between databases.

2. (A) Explain how to create and drop control files with syntax. **8**

**OR**

Explain how to create, alter and drop user with syntax.

- (B) Create a profile that allows : **6**

- (a) 4 concurrent sessions
- (b) 20 CPU per session
- (c) Connect time 8 minutes
- (d) Idle time of 5 minutes
- (e) Number of data blocks that can be called per user is 1000.
- (f) Number of data blocks that can be called per session is unlimited.

**OR**

Explain archived REDO log files and how to manage it.

3. (A) Explain B-Tree and Reverse index with example. **8**

**OR**

Define Cluster. Write syntax to create cluster and cluster index.

- (B) Give difference between unique and non-unique index. Explain two ways to create unique index. 6

**OR**

Explain hash cluster with example.

4. (A) Explain optimizer operations and optimizer types. 8

**OR**

Explain types of recovery with steps.

- (B) What are the steps that you need to follow to create backup of the data using export utility ? 6

**OR**

Explain EXPLAIN\_PLAN statement.

5. (A) Fill in the blanks : 7

- (1) The \_\_\_\_\_ index storage structure is in the form of an inverted tree.
- (2) The size of the REDO log buffer can be determined by the \_\_\_\_\_ initialization parameter.
- (3) A \_\_\_\_\_ architecture is suitable for big organizations, where database are too large.
- (4) A \_\_\_\_\_ tablespace is created when Oracle database is installed.
- (5) \_\_\_\_\_ is a default value of the OPTIMIZER\_MODE.
- (6) \_\_\_\_\_ backup includes backing up files using operating system commands.
- (7) A \_\_\_\_\_ is defined as a set of privileges.

- (B) True or False : 7

- (1) CREATE TABLE is an object level privilege.
- (2) The process monitor process performs recovery when user process fails.
- (3) The WITH ADMIN OPTION enables the grantee to further grant the role and privileges to other database user.
- (4) Coalescing is a method to free leaf blocks for reuse.
- (5) Tablespace is a physical storage structure that stores the data physically in data files.
- (6) SYSOPER privilege does not allow you to access the database when database is close.
- (7) RMAN commands are used to automate backup of data.