



UNIVERSITY OF THE PUNJAB

Seventh Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

PAPER: Database Administration

Course Code: IT-403 Part-I (Compulsory)

MAX. TIME: 15 Min.

MAX. MARKS: 10

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Signature of Supdt.:

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)

1. Which of the following is the preferred way to recover a database after a system failure?

- a) Rollback
- b) Rollforward
- c) Switch to duplicate database
- d) Reprocess transactions

2. The LGWR process writes information into:

- a) Database files
- b) Control files
- c) Redo log files
- d) All the above

3. What is a DATABLOCK ?

- a) Set of Extents
- b) Set of Segments
- c) Smallest Database storage unit
- d) None of the above

4. A set of Dictionary tables are created :

- a) Once for the Entire Database
- b) Every time a user is created
- c) Every time a Tablespace is created
- d) None of the above

5. The redo log buffer and Shared pool are elements of?

- a) PGA
- b) Buffer cache
- c) PGA and Buffer cache
- d) SGA

6. A database role:

- a) Can be enabled or disabled
- b) Can consist of system and object privileges
- c) Is owned by its creator
- d) Cannot be protected by a password

7. Which statement does not relate to undo data?

- a) Provides a record of how to undo a change
- b) Is used for rollback, read consistency, and flashback
- c) Is stored in memory only, not written to disk
- d) Protects against inconsistent reads in a multiuser system

8. The _____ is shared by all server and background process.

- a) PGA
- b) SGA
- c) Connection
- d) None of them

9. What is read into the Database buffer Cache from the data files?

- a) Rows
- b) Changes
- c) Blocks
- d) SQL

10. Poor data administration can lead to which of the following?

- a) single definition of the same data entity
- b) Familiarity with existing data
- c) Missing data elements
- d) All of the above



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PAPER: Database Administration

Course Code: IT-403 Part – II

MAX. TIME: 2 Hrs. 45 Min.

MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Explain the short questions.

(10x2=20)

- i. What is the purpose of Redolog files in the database?
- ii. Explain DML with examples?
- iii. Differentiate between deferred constraints and immediate constraints?
- iv. Define the terms Extents and Blocks?
- v. Explain Types of segments?
- vi. What are **SMON** and **PMON**?
- vii. What is the purpose of **CKPT**?
- viii. Differentiate between complete recovery and incomplete recovery?
- ix. What is Database Instance?
- x. Define Profile?

Q.3. Explain the detailed questions.

(3 x 10 = 30)

- 1 Explain Oracle Database Memory Structures in Detail? Also Draw Diagram.
- 2 Explain the working of Redo log and Archive files in Database?
- 3 Write a command to create user Ali having 1 GB Quota on each tablespace TBS1 & TBS2, TBS1 is default for Ali?