



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE

QUALIFICATION: BACHELOR OF COMPUTER SCIENCE (SYSTEMS ADMINISTRATION)	
QUALIFICATION CODE: 07BCMS	LEVEL: 7
COURSE: Database Administration	COURSE CODE: DBA712S
DATE: July 2024	SESSION: 1
DURATION: 3 hours	MARKS: 100

SUPPLEMENTARY/SECOND OPPORTUNITY EXAMINATION QUESTION PAPER	
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THIS QUESTION PAPER CONSISTS OF 4 PAGES

(Excluding this front page)

INSTRUCTIONS

1. Answer ALL the questions.
2. Write clearly and neatly.
3. Number the answers clearly.
4. When answering questions you should be guided by the allocation of marks in []. Do not give too few or too many facts in your answers.

PERMISSIBLE

1. Non programmable Scientific Calculator.

Section 1: Multiple choice questions

[16 Marks]

1. A SYS admin user grant privileges to other normal users [1]
 - a. Yes
 - b. No

2. The following is not an admin user [1]
 - a. SYSDBA
 - b. SYSOPER
 - c. SYSBACKUP
 - d. None of the above

3. DBMS Advantages [1]
 - a. Simplicity
 - b. Better Data Transferring
 - c. Faster data Access
 - d. All of the above

4. Which one of the following is a Database type? [1]
 - a. Cloud databases
 - b. Conditional database
 - c. Administration database
 - d. None of the above

5. Which one of the following SQL commands is a TCL command? [1]
 - a. GRANT
 - b. SELECT
 - c. DROP
 - d. COMMIT.

6. When an Oracle database is installed, which user is created with admin privileges [1]
 - a. SYS
 - b. SYSTEM
 - c. SGA
 - d. Both a and b

7. Which of the following cannot be edited in the ORA file? [1]
- a. Database name
 - b. Service name
 - c. Host name
 - d. Host login credentials
8. Among this Database failure which one is not a Database Network Failure [1]
- a. Listener fails
 - b. Network interface card fails
 - c. Network connection fail
 - d. User drops a table
9. Which of the following is not a database challenge in an organization? [1]
- a. Scalability
 - b. Modifiability
 - c. Adaptability
 - d. Data security
10. Which one of the following is not a database application? [1]
- a. Social media sites
 - b. E-commerce websites
 - c. Static websites
 - d. Online Banking systems
11. In space segment management Compression options is used to compress data to solve disk space. [1]
- a. True
 - b. False
12. False logging is a safe method to make sure that database is captured and available for recovery in redo logs [1]
- a. True
 - b. False
13. Table space needs to be offline before dropping it [1]
- a. True
 - b. False
14. A system privileges are not required to drop a tablespace [1]
- a. True
 - b. False

15. The instance only consists of background processes. [1]

- c. True
- d. False

16. In Oracle database server architecture user processes usually take place in the server.[1]

- a. True
- b. False

Section B Structured Question

(56 Marks)

Question 1

- a) Mention four Database failures categories and what happens to the database during these failures [8]
- b) In Oracle database backup is very important, we have Full backup, incremental backup and cumulative backup, what does each type of backup achieve? [6]
- c) Mention four typical problems that cause database statement failure and for each problem what could be the solution. [8]

Question 2

- a) In the database storage architecture there are different types of database files. Mention and discuss five database files [10]
- b) During installation, which component or section of the computer will the Database and Instance be allocated to? [4]
- c) Oracle provides a range of tools to manage and work with Oracle databases. Mention at least five tools and task associated to each tool in oracle database [10]
- d) Discuss the following ways to access and manipulate data from database DDL, DQL and DCL [6]
- e) Distinguish the following oracle database terms. [4]
System privileges and Object privileges

Section C: Practical Questions

[28 marks]

Question 1

Describe what each of the following DBA SQL Startup Options commands achieve [8]

1. SQL> start-up
2. SQL> startup nomount
3. SQL> alter database mount
4. SQL> alter database open

Question 2

You are asked to create a database name 'KULIMA' this database is for Marketing farmers products, this database consist of 2 tables. The first table is **Farms** and it has the following fields, **Farm_owner_ID**, **Farm_Owner_name**, **Farm_Name**, **Produce_type**, **Prices_per_Kg**, **Client_ID**. The second table name is **Clients** and it has the following fields, **Client_ID** and **Client_name**.

- a) Write an SQL that can give all information of the clients [2]
- b) Write a query that can only give results of Farm_owner_ID, Farm_Name, Produce_type, Prices_per_Kg. [2]
- c) The department of Agriculture asks you to give information about Farm_owner_name, Produce_type, Prices_per_Kg and Client name. [6]
- d) You were asked by the famers Union to increase the prices of famers produces by 10% write an SQL query to provide this information. [4]
- e) The Famers union faced criticism to reverse back the farm produce prices write an SQL statement to reverse back the prices [4]
- f) The clients stopped buying from the famers, Write a SQL code to delete the table Clients [2]

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