



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

**FACULTY OF COMPUTING AND INFORMATICS
SCHOOL OF COMPUTING**

DEPARTMENT OF SOFTWARE ENGINEERING

QUALIFICATION: BACHELOR OF COMPUTER SCIENCE; BACHELOR OF INFORMATICS; BACHELOR OF GEOINFORMATION TECHNOLOGY	
QUALIFICATION CODE: 07BCMS; 07BACS 07BAIT; 07BAIF; 07GITB	LEVEL: 6
COURSE: DATABASE PROGRAMMING	COURSE CODE: DPG621S
DATE: NOVEMBER 2022	SESSION: 1 (THEORY)
DURATION: 1 HOUR	MARKS: 40

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER:	MR GEREON KOCH KAPUIRE
MODERATOR:	PROF JOSE QUENUM

THIS QUESTION PAPER CONSISTS OF 2 PAGES
(Excluding this front page)

INSTRUCTIONS

1. Answer all questions.
2. When writing take the following into account: The style should inform than impress, it should be formal, in third person, paragraphs set out according to ideas or issues and the paragraphs flow in a logical order. The information provided should be brief and accurate.
3. Please, ensure that your writing is legible, neat and presentable.

Section A – Theory (40 Marks)

Question 1

Choose True or False

[10 Marks]

No	Questions	True (T)	False (F)
1	Each transaction is implicitly started with the BEGIN TRANSACTION		
2	DCL triggers respond to server and database events such as CREATE TABLE and DROP TABLE statements.		
3	Server databases are designed to serve limited users at a time		
4	ROLLBACK TRANSACTION rolls back an explicit transaction to the end of the transaction		
5	Primary data file constructs a SQL Server database		
6	Stored procedures can have a single integer return value		
7	sp_rename allows to rename of objects		
8	Output parameters are used to return a value like a function		
9	The ALTER TRIGGER statement creates a stored trigger		
10	Once a stored procedure is dropped its content is still saved		

Question 2

[4 Marks]

Compare and explain the difference between the two statements.

Statement 1:

Execute add_employee '1','Chantelle','Van Wyk','Ms','2000','Female'

Statement 2:

Execute add_employee

Question 3

[4 Marks]

Compare and explain the difference between the two statements.

Statement 1:

CREATE PROCEDURE add_employee_with_parameters

Statement 2:

ALTER PROCEDURE add_employee_with_parameters

Question 4

[4 Marks]

Compare and explain the difference between the two statements.

Statement 1:

CREATE PROCEDURE add_employee

AS

DECLARE @Employee_Id varchar(25)

Statement 2:

CREATE PROCEDURE add_employee
@Employee_Id varchar(25)

Question 5

[4 Marks]

Explain the usefulness of transactions.

Question 6

[2 Marks]

If you are a Database Developer, you have the option to either use a trigger or a procedure. When would it be applicable to use a stored procedure? Can you please share two advantages of using a stored procedure?

Question 7

[2 Marks]

Can you please explain what a cursor is in databases?

Question 8

[2 Marks]

As a Senior Database Developer at ABC Technology, you always educate your Junior Database Developers that they must be careful when writing triggers for a database. Can you name four problems that could be encountered?

Question 9

[4 Marks]

You are employed by ABC Technology as a Database Developer. You get invited to present the topic "Database Development in the modern space" to university students. During the QA, one student wants you to explain the difference between a variable and a parameter. What would your reply be?


Question 10

[4 Marks]

What is the difference between COMMIT TRANSACTION and COMMIT TRANSACTION?

<<<<<<End of Exam >>>>>

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