

061205T4CYB

CYBER SECURITY TECHNICIAN LEVEL 5

SECURE DATABASES

SEC/OS/CS/CR/05/5/A

Nov. / Dec. 2023



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

WRITTEN ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATES

1. This paper has three sections **A**, **B** and **C**.
2. You are provided with a separate answer booklet.
3. Marks for each question are as indicated.
4. Do not write on the question paper.

This paper consists of 7 printed pages
Candidates should check the question paper to ascertain that all pages
are printed as indicated and that no questions are missing

SECTION A: (20 MARKS)

*Answer **all** questions in this section.*

Each question carries one Mark.

1. When configuring a database firewall according to the expected operation, which aspect of the database environment is typically influenced?
 - A. Data availability
 - B. Database backup frequency
 - C. Data retention policies
 - D. Database performance and security
2. Which type of database is best suited for handling complex queries and large volumes of data with a focus on data warehousing and business intelligence?
 - A. Relational Database
 - B. NoSQL Database
 - C. Graph Database
 - D. Columnar Database
3. Why is it essential to adhere to the ICT policy when monitoring and applying database patches?
 - A. It has no impact on the database
 - B. It reduces database performance
 - C. It ensures compliance with regulations and security best practices.
 - D. It minimizes the need for database backups.
4. Which of the following is a key criterion for classifying databases based on data model?
 - A. Data storage capacity
 - B. Data consistency
 - C. Data structure and organization
 - D. Data processing speed
5. Which of the following is a key consideration when configuring a database firewall in line with the expected database operation?
 - A. Network latency optimization.
 - B. Protection against SQL injection attacks.
 - C. Efficient load balancing for database queries.
 - D. Enhancing database naming conventions.