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09190514HR

HEALTH RECORDS AND INFORMATION TECHNOLOGY LEVEL 6

HE/OS/HR/CR/01/6

Manage Health Records Database

November/December 2025

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

WRITTEN ASSESSMENT

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TIME: 3 HOURS

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INSTRUCTIONS TO CANDIDATE

1. This paper consists of **TWO** sections: **A** and **B**.
2. Attempt **ALL** questions in section A and **ANY THREE** (3) questions in section B.
3. Marks for each question are indicated in the brackets.
4. Candidates are provided with a separate answer booklet.
5. Do not write on the question paper.

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This paper consists of THREE (3) printed pages.

Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

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SECTION A (40 MARKS)

Attempt ALL the questions in this section.

1. Define the following terms as used in Database Management system.

- a) **Query** (1 Mark)
- b) **Record.** (1Mark)
- c) **Field.** (1 Mark)
- d) **Form.** (1Mark)

2. Health records database remains a crucial facet in the effective healthcare management.

Name FOUR major components of a database management system (DBMS).

(4 Marks)

3. There are several users of database management systems. Give FOUR users of Database Management Systems. (4 Marks)

4. Database management requires understanding of relationships in day to day practice. Name FOUR types of relationships in the database. (4 Marks)

5. Development of a database system is a process that involves different stages. List FOUR stages in the health records database lifecycle. (4 Marks)

6. There are several requirements including hardware devices needed for a database management system to function. State FOUR examples of hardware devices. (4 Marks)

7. In database management systems, computers are essential for proper utilization of health information systems. Mention FOUR roles of computers in Health Information Systems. (4 Marks)

8. One of the major roles of a HRIO is to prepare reports. Identify FOUR health information reports. (4 Marks)

9. Healthcare industries have largely adopted Information Technology in many operations. Identify FOUR benefits of information technology in healthcare. (4 Marks)

10. Data collection tools are used to facilitate the reporting of health data in the KHIS. Identify FOUR primary data collection tools that are used. (4 Marks)

SECTION B (60 MARKS)

Attempt Any THREE (3) questions in this section.

11. Data stored in a database may be prone to security threats.

a) Describe FIVE common security threats to a Health Record database.

(10 Marks)

b) Explain FIVE methods to eliminate such security threats.

(10 Marks)

12. Maintaining a proper health information system is key to ensuring patient records are managed effectively.

a) Outline FIVE sources of health information in a hospital.

(10 Marks)

b) Explain FIVE users of Health information.

(10 Marks)

13. Data processing ranges from simple manual compilation to sophisticated processing using database systems.

a) Explain FIVE advantages of data processing using database management systems.

(10 Marks)

b) Describe FIVE dimensions of data quality used to ensure that the data managed in a database is valuable and useful for the intended purpose.

(10 Marks)

14. Most Database Management System have several major components, which include database languages and commands.

a) Explain FOUR database languages in Database Management System. (DBMS).

(8 Marks)

b) Describe SIX commands used in Database Management systems.

(12 Marks)