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## **HEALTH RECORDS AND INFORMATION TECHNOLOGY LEVEL 6**

**HE/OS/HR/CR/01/6**

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**Manage Electronic Health**

**July/ August 2025**

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

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### **WRITTEN ASSESSMENT**

**Time: 3 HOURS**

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### **INSTRUCTIONS TO CANDIDATE**

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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.**

## SECTION A (40 MARKS)

*Attempt ALL the questions in this section.*

1. Define the following terms in Electronic Health:
  - a) Electronic Health Records. (2 Marks)
  - b) Data. (1 Mark)
2. Telemedicine has improved patient outcomes in Kenya and the entire Africa. List FOUR uses of telemedicine in health care industry. (4 Marks)
3. Many hospitals have currently digitized their systems Globally. Mention THREE importance of using digitized systems to capture health data. (3 Marks)
4. Maisha Bora level 5 Hospital is transitioning from paper-based systems to electronic Health Systems. Identify THREE challenges that the facility will experience in the transition process. (3 Marks)
5. State FOUR disadvantages of electronic Health implementation in rural hospitals. (3 Marks)
6. Electronic Health(e-Health) adoption in Kenya health care systems has revamped the quality of care in most facilities and health care organizations. Give FOUR benefits of application of e-Health in Kenyan facilities. (4 Marks)
7. Morelife hospital has adopted online booking system of clinics for diabetic and Gynecological clinics and the patients are cooperating well since the inception of the system. State TWO importance of online booking systems to patients. (2 Marks)
8. The introduction of mobile health (m-health) has led to the adoption of mobile patient portals. List FIVE uses of mobile patient portals in health care. (5 Marks)
9. Identify TWO importance of online clinical notes to an attending doctor. (2 Marks)
10. List FOUR procedures that are usually computerized in health facilities. (4 Marks)
11. Scheduling of patients' clinics can be done both electronically and manually. Mention FOUR advantages of electronic scheduling over manual scheduling. (4 Marks)
12. Health data can be derived from diverse sources. State THREE sources of health data. (3 Marks)

**SECTION B (60 MARKS)**

***Attempt ANY THREE questions in this section.***

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12. Many facilities and research centers are currently adopting digitized disease surveillance systems for various reasons.

a) State FOUR disease that can be tracked digitally. (4 Marks)

b) Explain FIVE advantages of digitizing disease surveillance. (10 Marks)

Date: 01.08.2025 11:44 AM

c) Describe THREE negative impact of surveillance digitalization. (6 Marks)

13. Madam J is a Health Records officer in charge of Ariya Bora Referral Hospital. She has been requested to propose security measures that can be applied to the facility Electronic Health Systems to ensure maximum security of patient's records.

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Date: 01.08.2025 11:44 AM

a) Describe FIVE security tools that can be applied to safeguard Electronic Health Records. (10 Marks)

b) Explain FIVE challenges facing the uptake of electronic Health Records. (10 Marks)

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14. Sidak Hospital has procured an online patient registration system to deal with the long waiting times menace that the facility has experienced for a long period. The workers in the facility are however against introduction of this change.

a) Explain SIX reasons why the workers might be resisting change in the facility. (12 Marks)

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b) Describe THREE steps you would take to resolve these problems. (6 Marks)

c) State TWO methods used to ensure that the system integrates seamlessly with the hospital's existing electronic health records (EHR). (2 Marks)

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15. Data privacy has been a great challenge since the roll out of Electronic Health Records. The government is however putting up all measures to ensure that health records are well secured.

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a) Describe FIVE benefits of data privacy in Electronic Health Systems. (10 Marks)

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b) Explain FIVE measures the government is putting across to ensure integrity and security of electronic data. (10 Marks)