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

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

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**Apply Medical instrumentation**

Date: 20.11.2025 02:29 PM

**November/December 2025**

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

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### **WRITTEN ASSESSMENT**

Date: 20.11.2025 02:29 PM

**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**.
3. **Attempt question ELEVEN (11)** and any other **TWO (2)** questions in section **B**.
4. Marks for each question are indicated in the brackets.
5. Candidates are provided with a separate answer booklet
6. **DO NOT** write on the question paper.

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**This paper consists of THREE (3) printed pages.**  
**Candidate 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 questions in this section**

1. Different health condition requires different medical instrument for investigation. Name FOUR clinical conditions that require the use of medical instruments for their diagnosis. (4 Marks)
2. Over the years digital imaging is mostly preferred in all the hospitals. List FOUR importance of MRI machines. (4 Marks)
3. List FOUR instruments used in theatre. (4 Marks)
4. Health records department acts as a central records area. State FOUR equipment found in a health records office. (4 Marks)
5. Medical equipment needs to be maintained regularly to prolong longevity. Mention FOUR ways to extend their lifespan. (4 Marks)
6. State FOUR advantages of digital thermometer. (4 Marks)
7. Quality Assurance is a needed practice in health care organizations. Identify FOUR advantages of having quality assurance program in hospital. (4 Marks)
8. As a health records officer, it is important to understand the functionality of different machines. Give FOUR importance of studying medical instruments. (4 Marks)
9. Cancer has major impact on society in Kenya and across the world. Identify FOUR medical instruments used for cancer management. (4 Marks)
10. A computer is one of the instruments used in health records department. List FOUR hardware parts of a computer. (4 Marks)

**SECTION B: (60 MARKS)**

***Attempt Question ELEVEN (11) and any other TWO Questions in this section***

11. For a medical equipment to function well, it requires good maintenance.

a) Explain FIVE factors to consider when purchasing medical equipment. (10 Marks)

b) Describe FIVE ways of ensuring medical equipment are in good performance (10 Marks)

12. Draw a diagram of a microscope and label its parts. (20 Marks)

13. Decontamination and sterilization are important processes in maintenance of instruments and apparatus used in healthcare settings to free them from harmful microorganisms and make them safe for use.

a) Describe FIVE methods of decontamination and sterilization. (10 Marks)

b) Explain FIVE ways of effectively keeping laboratory equipment from damage. (10 Marks)

14. When purchasing medical equipment, it is crucial to consider various factors to make an informed decision.

a) Describe FIVE key factors to consider when purchasing medical equipment. (10 Marks)

b) Explain FIVE importance of using an instrument for its correct purpose. (10 Marks)