

1012106T4COH
APPLY MEDICAL INSTRUMENTATION
HE/CU/HR/CC/04/5/A
APPLY MEDICAL TERMINOLOGY
July/August 2025



AMREF INTERNATIONAL TRAINING CENTER

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. Marks for each question are indicated in the brackets.
2. The paper consists of **TWO** sections: **A** and **B**.
3. Candidates are provided with a separate answer booklet
4. **DO NOT** write on this question paper.

This paper consists of Four (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)

Answer all questions in this section

1. Medical instrumentation plays a critical role in healthcare settings by aiding healthcare professionals in meeting the objectives of healthcare.
 - a) Define the term medical instrumentation? (2 Marks)
 - b) State TWO examples of medical instrumentation that are used in triage (2 Marks)
2. Outline FOUR parameters that can be measured using biomedical instruments (4 Marks)
3. From your understanding, Identify FOUR objectives of learning medical equipment.(4 Marks)
4. There is a patient who came in to the hospital emergency gasping for air, what are four of preparations that will be needed in making oxygen cylinder. (4 Marks)
5. Outline TWO uses of an autoclave in a health care set up (4 Marks)
6. Identify FOUR parts of a Hot air oven (4 Marks)
7. Highlight FOUR accessories used in a digital Weighing scale. (4 Marks)
8. What are some of the maintenance procedures needed for blood glucometer after use by medical professional (4 Marks)
9. The use of medical instruments may be hindered by various factors. Highlight FOUR barriers that medical records officer can face when using the medical instruments. (4 Marks)
10. Computer is one of the widely used medical devices in the world today. State any FOUR hardware components of a computer (4 Marks)

SECTION B: (60 MARKS)

Attempt any THREE questions from this section

11. Discuss the roles of different categories of stake holders of medical equipment as applied in medical instrumentation. (20 Marks)
12. Draw and name the parts of a simple light microscope (20 Marks)
13. As a newly employed health records officer, you have been tasked to the hospital administration to take a stock of auxiliary equipment in the filing library.
- a) List any FOUR auxiliary equipment that should be found in a well-established filing library (4 Marks)
- b) Give the functions of each equipment listed in (a) above (4 Marks)
- c) Explain SIX factors to consider when purchasing the above equipment (12 Marks)
14. Medical devices are classified based on different criteria and class is one of them.
- a) Describe the categorization of medical equipment based on classes (6 Marks)
- b) Describe SEVEN general ways of improving the longevity of medical equipment (14 Marks)