

091906T4HRI
HEALTH RECORDS AND INFORMATION TECHNOLOGY LEVEL 6
HE/OS/HR/CC/04/6/A
Apply Medical Instrumentation
July /Aug 2023



WRITTEN ASSESSMENT

Time: 3 hours

INSTRUCTIONS TO CANDIDATES

1. This paper has two sections **A** and **B**.
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 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)

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) What do you understand by the term medical instrumentation? (2 Marks)
 - b) State TWO examples of medical instrumentation that are used in triage (2 Marks)
2. State any FOUR parameters that can be measured using biomedical instruments (4 Marks)
3. From your understanding, give 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. Explain the use of an autoclave in a health care set up (2 Marks)
6. List any 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. Give any FOUR barriers that medical records officer can face when using the medical instruments. (4 Marks)
10. Computer is one of the widely used medical device in the world today. State any FOUR hardware components of a computer (4 Marks)

SECTION B: (60 MARKS)

Answer 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 filling library (4 Marks)
 - b) Give the functions of each equipment listed in (a) above (4 Marks)
 - c) Explain any 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 any SEVEN general ways of improving the longevity of medical equipment (14 Marks)

END