



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR DIPLOMA IN HEALTH RECORDS**

1ST Year 2ND SEMESTER 2023/2024 ACADEMIC YEAR

COURSE CODE: HDR 2124

COURSE TITLE: Medical instrumentation

EXAM VENUE:

STREAM: (Diploma)

DATE:

EXAM SESSION: September-Dec 2023

TIME: 3.00 HOURS

Instructions:

- i. Answer section A and any three in section B.
- ii. Candidates are advised not to write on the question paper.
- iii. Candidates must hand in their answer booklets to the invigilator while in the examination room.

SECTION A: 40 MARKS

1. Define the following terms
 - a) Medical devices
 - b) Medical equipment
 - c) Quality assessment
 - d) Clinical investigation. (4 marks)
2. List any four equipment used to store and transfer medical supplies. (4 Marks)
3. List any four common durable medical equipment. (4 Marks)
4. List any four common diagnostic equipment in a level 3 hospital . (4 marks)
5. As a HRIO, list any four electronic medical equipment you are likely to come across in patient medical notes. (4 marks)
6. List any four examples of procedural equipment in a dispensary. (4 marks)
7. Explain why it is important to have quality audits in medical instruments department. (4 marks)
8. Explain how you interpret lab results. (4 marks)
9. **Why is it important to define essential performance.** (4 marks)
10. **List functions of a theatre.** (4 marks)

SECTION B:60 MARKS

Question one is compulsory and any other Two

1. Medical device quality assurance refers to the systematic and comprehensive set of processes and activities. Discuss. **(20 marks)**
2. a) Explain the importance of quality control in medical devices manufacturing **(10 marks)**
b) Describe the advantages of quality assurance management for medical devices. **(10 marks)**
3. Wound care/ management is an essential thing in UHC programs.
a) List five instruments used in incision and drainage. Give 5 investigations and possible interpretation in wound management. **(10 marks)**
b) Discuss the management of medical instruments **(5 marks)**
c) **Explain challenges associated with medical instrumentation in a hospital. (5 marks)**
4. a) **Describe giving examples equipment and supplies common in hospitals. (10 marks)**
b) **Describe diagnostic procedures/processes in a hospital set up. (10 marks)**
5. a) **Describe any 10 procedures done in the hospital giving examples in each case. (10 marks)**
b) **Discuss the parameters of medical equipment in use at a healthcare set up. (10 marks)**