



**MURANG'A UNIVERSITY OF TECHNOLOGY**  
**SCHOOL OF PURE, APPLIED AND HEALTH SCIENCES**

**DEPARTMENT OF HEALTH SCIENCES**

**TVET EXAMINATION**

**2023/2024 ACADEMIC YEAR**

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN  
SCIENCE LABORATORY TECHNOLOGY**

**SLT/CU/BC/SI/07/6/A – OCCUPATION SAFETY AND HEALTH PRACTICE**

**DURATION: 2 HOURS**

**INSTRUCTIONS TO CANDIDATES:**

1. Answer question one and any other three questions.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

## **SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION**

### **QUESTION ONE (30 MARKS)**

- a) Define the term hazard. (1 mark)
- b) Giving examples of each, discuss different types of hazard available in a work place. (10 marks)
- c) Explain different ways in which biological hazards can be prevented. (5 marks)
- d) With the help of a sustainable diagram, explain the hierarchy of control indicating the most effective and least effective. (12 marks)
- e) What are the effects of biological hazards in the human body? (4 marks)
- f) Discuss four route of entry of hazards in the human body. (8 marks)

## **SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION**

### **QUESTION TWO (20 MARKS)**

- a) State any four major hazards available in a workplace. (4 marks)
- b) Discuss three effects of physical hazards in human body. (6 marks)
- c) Discuss ways in which biological hazards can be transmitted. (4 marks)
- d) Discuss the factors that can affect the effect of chemical hazard in human body. (6 marks)

### **QUESTION THREE (20 MARKS)**

- a) Imagine you are a manager in a particular work place and you are supposed to identify hazards in that workplace. Explain different methods you may use to identify hazards. (8 marks)
- b) Sate any eight workplace emergency. (8 marks)
- c) CPR (cardiopulmonary resuscitation) is a skill that everyone can learn and you don't need to be a health professional to do it. Give four examples of CPR you can administer in case of emergency. (4 marks)

### **QUESTION FOUR (20 MARKS)**

- a) Identify five individuals who are at risk of biological hazards. (5 marks)
- b) What is a contingency measure in controlling hazard? (2 marks)
- c) State five examples of personal protective equipment to be used in a workplace. (5 marks)
- d) Discuss four routes of entry of hazards into the human body. (8 marks)

### **QUESTION FIVE (20 MARKS)**

- a) Give examples of each of the following indicators in a workplace
  - i. Physical indicator (3 marks)
  - ii. Chemical indicator (3 marks)
  - iii. Biological chemical (3 marks)
  - iv. Ergonomic indicator (3 marks)
  - v. Psychosocial indicator (3 marks)
- b) State five workplace emergency. (5 marks)