



# **MURANG'A UNIVERSITY OF TECHNOLOGY**

## **SCHOOL OF PURE, APPLIED AND HEALTH SCIENCES**

### **DEPARTMENT OF HEALTH SCIENCES**

#### **UNIVERSITY ORDINARY EXAMINATION**

**2023/2024 ACADEMIC YEAR**

**SECOND YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR**

**OF SCIENCE IN MEDICAL LABORATORY SCIENCES**

**MML 209 – PHARMACOGNOSY**

**DURATION: 2 HOURS**

#### **INSTRUCTIONS TO CANDIDATES:**

1. Answer question ONE and any other two 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) State five classification of drugs as found in Pharmacognosy. (5 marks)
- b) Give five chemical constituents of the chemical classification of drugs. (5 marks)
- c) State five ways on how one can maintain high quality products of the herbal products. (5 marks)
- d) State the five evaluation methods of the herbal products. (5 marks)
- e) Name five examples of great contributions to the study of Pharmacognosy. (5 marks)
- f) For the restoration, reproduction and protection of medicinal plants, state five rules that are required. (5 marks)

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

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

- a) Discuss factors affecting cultivation of herbal medicine. (10 marks)
- b) Discuss the importance of medicinal plants. (5 marks)
- c) Name five structural features used to identify medicinal plants. (5 marks)

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

- a) Discuss the five natural sources of drugs. (10 marks)
- b) Name five examples of drugs and their natural sources. (10 marks)

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

- a) Name five examples of phytochemicals. (5 marks)
- b) Define phytochemical and give the classification of its phytochemicals. (5 marks)
- c) Discuss the phytochemical tests used for the medicinal plants. (5 marks)