

# JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF HEALTH SCIENCES

# UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN PUBLIC HEALTH AND COMMUNITY HEALTH AND DEVELOPMENT

## 4<sup>th</sup> YEAR 1<sup>ST</sup> SEMESTER 2023/2024 ACADEMIC YEAR

#### **MAIN CAMPUS**

**COURSE CODE: HCB 1403** 

COURSE TITLE: INTRODUCTION TO PHARMACOLOGY

DATE: STREAM:

**EXAM SESSION:** 

TIME: 2 HOURS

### **Instructions:**

- 1. Answer ALL questions in Section A and ANY other TWO questions in Section B
- 2. Candidates are advised not to write on Question Paper.

Candidates must hand in the Answer Booklet to the Invigilator while in the Examination Room

#### **SECTION A [30 MARKS]**

#### Answer ALL questions from this Section.

#### **Question 1**

- a) What is pharmacology? (2 marks)
- b) Define the following terms as applied in pharmacology. (8 marks)
  - i. Dose
  - ii. Dose interval
  - iii. Drug interaction
  - iv. Teratogenicity
- c) Describe 3 of the branches of pharmacology (6 marks)
  - d) Discuss uses of the following categories of therapeutic drugs. (8 marks)
    - I. Antidepressant
    - II. Antidiabetic
  - III. Antiviral
  - IV. Sedative.
- a) The term drug nomenclature implies to the systematic and scientific naming of drugs. Describe the below listed different categories of names of drugs. (6 marks)
  - i. Chemical name
  - ii. Non-proprietary name (Generic name).
- iii. Proprietary name.

#### **Question 2**

- a)Define chemotherapy (2 Marks)
- b) Discuss ways through which chemotherapy can be given to patients suffering from cancer.
- (12marks)
- c) Highlight side effects of chemotherapy drugs to patients. (4 marks)
- d)What are roles of a public health officer in drug administration (3 marks)

### **Question 3**

- a) Discuss any two aspects of pharmacodynamics (10 marks)
- b) Several factors play a role in determining the dosage of therapeutic drugs. Discuss any three of the factors. (10 marks)

#### **Ouestion 4**

- a) Drug interactions can be classified into several categories based on their mechanisms. Discuss 4 categories of drug interactions (12 marks).
- b) Discuss roles and importance of drug nomenclature.(8 marks)