

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2019/2020**

**SECOND YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMMUNITY HEALTH AND DEVELOPMENT**

**MLS 2233: BASIC OF PHARMACOLOGY AND PHARMACOGNOSY**

**DATE: DECEMBER, 2019 TIME: 2 HOURS**

INSTRUCTIONS: ANSWER ALL QUESTIONS IN **SECTION A** (COMPULSORY) AND ANY OTHER ONE QUESTION IN **SECTION B**

**QUESTION ONE: 48 MARKS**

a. Define the following:-

 i. Pharmacokinetics . (3 marks)

 ii Pharmacodynamics. (3 marks)

b. Explain the routes of drug administration. (6 marks)

c. Explain on how biotransformation takes place. (6 marks)

d. Give a brief explanation on pharmacogenetis. (6 marks)

e. Explain on general management of poisoning. (6 marks)

f. How are drugs distributed in the body? (6 marks)

g. Explain on Adverse drug reactions. (6 marks)

h. What are receptor mediated drug effects. (6 marks)

**QUESTION TWO: 22 MARKS**

Describe the specific and non-specific structureacitly relationships

**QUESTION THREE: 22 MARKS**

Explain the different routes of drug administration.

**QUESTION FOUR: 22 MARKS**

Discuss medicinal and toxic plant substances.