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*(University of Choice)*

**MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**(MMUST)**

**MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS**

**MAIN EXAM**

**2022/2023 ACADEMIC YEAR**

**FOURTH YEAR SECOND SEMESTER EXAMINATION**

**FOR THE DEGREE OF BACHELORS OF SCIENCE HEALTH PROMOTION AND  
SPORTS SCIENCE**

**COURSE CODE: HSS 411**

**COURSE TITLE: SPORTS AND EXERCISE PHARMACOLOGY**

**DATE: 13<sup>TH</sup>.APRIL, 2023**

**TIME:8.00 -10.00 A.M**

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**INSTRUCTIONS TO CANDIDATES: ANSWER QUESTION ONE and ANY OTHER  
TWO QUESTION.**

**TIME: 2 Hours**

MMUST observes ZERO tolerance to examination cheating

Paper Consists of 2 Printed Pages. Please Turn Over



## QUESTION 1

- a. Define the following terminologies (10 marks)
  - i. Antagonism
  - ii. Synergy
  - iii. Half life
  - iv. Efficacy
  - v. Pharmacodynamics
- b. State the sources with examples of drugs (10 marks)
- c. Highlight importance of pharmacology in sport (10 marks)

## QUESTION 2

Exercise is an overlooked prescription discuss (20 marks)

## QUESTION 3

Describe the factors that influences drug bioavailability in the body (20 marks)

## QUESTION 4

Explain the effect of exercise on the drug (20 marks)

## QUESTION 5

What is the relevance of nutritional supplements in sports? (20 marks)