



# Technical University of Mombasa

Faculty of Applied and Health Sciences

## DEPARTMENT OF PURE AND APPLIED SCIENCES

### UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF TECHNOLOGY IN INDUSTRIAL MICROBIOLOGY AND BIOTECHNOLOGY BTMBT

#### ABT 4203: PHARMACOGNOSY

#### SEMESTER EXAMINATION

DECEMBER 2013 SERIES

2 HOURS

Instructions to candidates:

This paper consist of **FIVE** questions

Answer question **ONE** (compulsory) and any other **TWO** questions

#### QUESTION ONE

- a) Define the following terms
  - (i) Nutraceutical (2marks)
  - (ii) Phytomedicine (2marks)
  - (iii) Crude drug (2marks)
- b) Highlight the factors considered when describing an individual drug. (6marks)
- c) Explain the chemical classification of natural products (6marks)
- d) Outline the properties and functions of alkaloids (6marks)
- e) Outline the reasons for advocating ethnomedicine (4marks)

## **QUESTION TWO**

Discuss the challenges encountered in the use of herbal medicine in Kenya. **(20marks)**

## **QUESTION THREE**

Discuss the extraction procedures and isolation of active compounds from plants. **(20marks)**

## **QUESTION FOUR**

Discuss the different methods of preparations of crude extracts important in the treatment of diseases  
**(20marks)**

## **QUESTION FIVE**

Discuss the various sources of crude extracts in plants  
**(20marks)**