

UNIVERSITY EXAMINATIONS

1ST SEMESTER 2022/2023 ACADEMIC YEAR

SECOND YEAR EXAMINATION FOR THE DEGREES
OF BACHELOR OF EDUCATION (SCIENCE),
BACHELOR OF SCIENCE (AGED)

BOTA 212: TAXONOMY OF HIGHER PLANTS

STREAM: R

TIME: 2 HRS

DAY: TUESDAY [8.30AM – 10.30AM]

DATE: 06/12/2022

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS: - Answer all the questions in section A and any of the two questions in B

SECTION A (40 MKS)

QUESTION ONE

(a) List the goals of plant taxonomy. (3 marks)

(b) What are the objectives of plant taxonomy? (2 marks)

QUESTION TWO

(a) Provide a brief description of three different types of classification systems. (3 marks)

(b) Explain Theophrastus' (370–287 B.C.) contributions to plant classification. (2 marks)

QUESTION THREE

Define the term "plant typification" and highlight the various types of typification. (5 marks)

QUESTION FOUR

Outline the important aspects of binomial naming conventions. (5 marks)

QUESTION FIVE

List the aims of modern taxonomy. (5 marks)

QUESTION SIX

Elaborate on the protection of herbarium specimens. (5 marks)

QUESTION SEVEN

Define the term "taxonomic characteristics." Account of their Use in Systematic taxonomy. (5 marks).

QUESTION EIGHT

What forms the basis of the classification and identification of flowering plants? (5 marks)

SECTION B

QUESTION NINE

Define the term taxonomic characters account on various characters employed in taxonomy. (15 marks)

QUESTION TEN

Describe the steps involved in preparing herbarium specimens. (15 marks)

QUESTION ELEVEN

Account for similarities and differences between Angiosperm and Gymnosperm.

(15 marks)

