

UNIVERSITY EXAMINATIONS

1ST SEMESTER 2022/2023 ACADEMIC YEAR

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

BOTA 112: GENERAL BOTANY

STREAM: R

TIME: 2 HRS

DAY: MONDAY [14.30 – 16.30]

DATE: 05/12/2022

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS: -Answer All Questions In Section A And Any Other Two Questions In Section B

SECTION A (COMPULSORY)

QUESTION ONE (40 MARKS)

Outline three salient features of plants (3 marks)

QUESTION TWO

Explain four types of classification in plants (8 marks)

QUESTION THREE

Describe the main differences between Cryptogams and Phanerogams (4 marks)

QUESTION FOUR

Briefly, describe the main differences between bacteria and plants (8 marks)

QUESTION FIVE

Explain the main distinguishing features of gymnosperms. (4 marks)

QUESTION SIX

Describe the general life cycle of bryophytes (8 marks)

QUESTION SEVEN

Discuss why the bryophytes are limited in size and to aquatic/moist environment. (5marks)

SECTION B: ANSWER ANY TWO QUESTIONS IN THIS SECTION (30 MARKS)

QUESTION EIGHT (15 MARKS)

- (a) Discuss the major characteristics of pteridophytes. (5 marks)
- (b) Discuss the mechanisms of asexual and sexual reproduction in algae. (10 marks)

QUESTION NINE (15 MARKS)

- (a) Characterize the main groups of living angiosperms (5 marks)
- (b) Discuss the process of sexual reproduction in angiosperms (10 marks)

QUESTION TEN (15MARKS)

- a) Discuss the major classification groups of gymnosperms (5 marks)
- b) Briefly, discuss the life cycle of gymnosperms (10 marks)

