

UNIVERSITY EXAMINATIONS

FIRST SEMESTER 2025/2026 ACADEMIC YEAR

**FIRST YEAR EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE (GENERAL), BACHELOR OF
EDUCATION (SCIENCE), AGEC AND AGED**

BOT/BOTA 112: GENERAL BOTANY

STREAM: R

TIME: 2 HRS

DAY: TUESDAY [11.30 – 13.30 P.M]

DATE: 27/01/2026

THIS QUESTION PAPER CONSISTS OF THREE (2) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS:

Answer all questions in Section A and any TWO questions in Section B

SECTION A: 40 MARKS

QUESTION ONE

On what basis are plants classified into different groups? (5 Marks)

QUESTION TWO

Give **two** examples of bryophytes and their three economic importance (5 Marks)

QUESTION THREE

State why angiosperms are considered to be the most advanced plants? (5 Marks)

QUESTION FOUR

Briefly describe the various degrees of cohesion of stamens (10 Marks)

QUESTION FIVE

Weak stems are commonly described as trailers, creepers and climbers. Discuss. (6 Marks)

QUESTION SIX

Using illustrations, differentiate between simple and compound leaves (4 Marks)

QUESTION SEVEN

Discuss algae classes based on their chief pigments (5 Marks)

SECTION B: 30 MARKS

QUESTION SEVEN

Describe the modern classification scheme of fungi (15 Marks)

QUESTION EIGHT

Discuss the relative position of the three whorls of a flower with respect to the ovary. (15 Marks)

QUESTION NINE

Discuss the modes of nutrition in bacteria citing relevant examples (15 Marks)