ALUPE UNIVERSITY

OFFICE OF THE DEPUTY PRINCIPAL

ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS

2025 /2026 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER REGULAR EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

COURSE CODE: BOT 112

COURSE TITLE: GENERAL BOTANY

DATE: 16TH DECEMBER 2025 TIME: 09.00AM – 12.00PM

INSTRUCTIONS TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES PLEASE TURN OVER

REGULAR – MAIN EXAM

BOT 112: GENERAL BOTANY

STREAM: BED SCIENCE **DURATION: 3 Hours**

INSTRUCTIONS TO CANDIDATES

i. *Answer **ALL** questions from section A and any **FOUR** from section B.*

ii. *Diagrams should be used whenever they serve to illustrate the answer.*

iii. *Do not write on the question paper.*

SECTION A (30 MARKS)

QUESTION ONE

a) Highlight four important roles of fungi in our daily lives. (4 Marks)

b)

i. What is plant morphology? (1 Marks)

ii. Briefly describe the two parts of plant morphology. (2 Marks)

c) identify four evolutionary developments in angiosperms that make them the most dominant species on earth. (4 Marks)

d) differentiate between Bryophytes and Pteridophytes (4 Marks)

QUESTION TWO

a) Distinguish between the antheridium and the archegonia. (2 Marks)

b) Outline any four functions a cell vacuole of a plant cell. (3 Marks)

c) Using one example, differentiate between prokaryotic and eukaryotic cells. (4 Marks)

d) Describe the symbiotic relationship between the fungi and the algae (3 Marks)

e) List three main differences between meiosis and mitosis (3 Marks)

SECTION B (40 MARKS)

QUESTION THREE

a) Distinguish between Cytology and Microbiology. (2 Marks)

b) State and explain the importance of the study of plants. (8 Marks)

QUESTION FOUR

Discuss functions of the various components of a plant cell. (10 Marks)

QUESTION FIVE

Describe the life cycle of Bryophytes (10 Marks)

QUESTION SIX

Differentiate between active transport and passive transport in plants (10 Marks)

QUESTION SEVEN

Discuss five salient features of Pteridophytes (10 Marks)

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