



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2024/2025 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER MAIN EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURAL
EDUCATION AND EXTENSION AND BACHELOR OF EDUCATION
SCIENCE**

COURSE CODE: SBT 2210

COURSE TITLE: PLANT ECOLOGY

DATE: 22 = 04 = 2025

TIME: 2:00 = 4:00 PM

INSTRUCTIONS TO CANDIDATES

Answer Question **ONE** and any other **TWO** Questions. Question one carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over 

KIBU observes ZERO tolerance to examination cheating

QUESTION ONE

- a). Explain the meaning of the term physiognomy as used in plant ecology. (3 Marks)
- b). Name four categories of biodiversity. (4 Marks)
- c). Define the following terms:
- i). Seral community. (1 Marks)
 - ii). Climax community. (1 Marks)
 - iii). Cyclic succession. (1 Marks)
 - iv). Senile succession. (1 Marks)
- d). Name the three main causes of succession. (3 Marks)
- e). Differentiate between species richness and species evenness. (2 Marks)
- f). State three characteristics of deciduous forest. (3 Marks)
- g). Differentiate between primary and secondary succession. (4 Marks)
- h). Describe the ecological succession of coral reefs. (3 Marks)
- i). Describe two characteristics of wetlands. (4 marks)

QUESTION TWO

Discuss plant defense mechanisms against herbivores. (20 Marks)

QUESTION THREE

Discuss the autogenic and allogenic succession. (20 Marks)

QUESTION FOUR

Discuss the role of physiognomy in plant ecology. (20 Marks)

QUESTION FIVE

Discuss the zonation of salt marsh habitat. (20 Marks)