



EMBU UNIVERSITY COLLEGE
(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

TRIMESTER EXAMINATIONS 2013/2014

SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
IN AGRICULTURAL EDUCATION AND EXTENSION

AEX 202: PLANT TAXONOMY AND ECONOMIC BOTANY

DATE: AUGUST 6, 2014

TIME: 11.00AM – 1.00PM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE

- i.) Define
- a) Plant taxonomy
 - b) Nomenclature (4 marks)
- ii.) State three differences between angiosperms and gymnosperms (3 marks)
- iii.) Briefly explain four main objectives of plant taxonomy (8 marks)
- iv.) Define three characteristics of plants based on habit and size of stem (3 marks)
- v.) State two advantages why botanist prefer the use of scientific names over common names

- (2 marks)
- vi.) Define three uses of a herbarium (3 marks)
- vii.) State five species of flowering plants that are found in protected areas in savanna ecosystems (5 marks)
- viii.) Highlight two ecological roles of plants in their natural ecosystems (2 marks)

QUESTION TWO

Using examples, discuss various vegetation communities in East African eco-regions and their uses (20 marks)

QUESTION THREE

Discuss the procedure for collection and preservation of plant specimen for herbarium development (20 marks)

QUESTION FOUR

Discuss the characteristics of plants in terrestrial ecosystems and their adaptation to these environments (20 marks)

QUESTION FIVE

Discuss various abiotic factors that determine the types and numbers of organisms of a species in an ecosystem (20 marks)

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