



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN:AGRICULTURAL EDUCATION AND EXTENSION, AGRICULTURAL BIOTECHNOLOGY, AGRICULTURAL ECONOMICS, BIOLOGY, BIORESOURCE CONSERVATIONAND MANAGEMENT AND BACHELOR OF EDUCATION SCIENCE

COURSE CODE: SBT 100/SBT 111/ SBT 114

COURSE TITLE: GENERAL BOTANY/SURVEY OF THE PLANT

KINGDOM/BASIC BOTANY

DATE: FRIDAY 24TH SEPTEMBER, 2021 **TIME:** 11:00 – 1:00 p.m.

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and 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)	Illustrate alternation of generations in bryophytes	(3 marks)
	Elucidate the morphology of Pteris vittata	(4 marks)
	Distinguish pteridophytes from bryophytes	(4 marks)
d)	Using a diagram illustrate the transverse section of a <i>Pinussp leaf</i>	(3 marks)
e)	Explain the structural characteristics of spirogyra	(3 marks)
f)	Explain terrestrial adaptations of vascular plants	(3 marks)
0)	g) Explain evolutionary adaptations that enabled plants to overcome challenges	
5)	living on land (3 m	arks)
h)	Explain how conifers are adapted to living in their habitat	(3 marks)
i)	With an illustration describe peristome of bryophytes	(4 marks)
1)	With an mastation describe position	

QUESTION TWO

Discuss the divisions in gymnosperms	(20 marks)
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QUESTION THREE

(20 marks)
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QUESTION FOUR

Describe the characteristics of pteridophytes	(20 marks)
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QUESTION FIVE

Write an essay	on the classification of angiosperms	(20 marks)
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