

MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF PURE, HEALTH APPLIED SCIENCES

DEPARTMENT OF PHYSICAL AND BIOLOGICAL

UNIVERSITY ORDINARY EXAMINATION

2020/2021 ACADEMIC YEAR

FIRST YEAR **FIRST** SEMESTER EXAMINATION FOR, BACHELOR OF EDUCATION SCIENCE

ABT 100-GENERAL BOTANY

DURATION: 2 HOURS

Instructions to candidates:

- 1. Answer question One and Any Other Two questions.
- 2. Mobile phones are not allowed in the examination room.
- 3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (30 MARKS)

a) Dis	cuss the criteria of modern classification	(5marks)
b) Explain the significance of bacteria (Schizophyta) in the following:		(5marks)
i.	Fibre retting	
ii.	Biotechnology	
iii.	Food processing	

- Pest control iv.
- Digestion v.

c)

i)	Explain how Cyano	bacteria differ from	heterotrophic eukaryotes	. (2marks)

ii) Outline the three forms of Cyanobacteria. (3marks)

d) Briefly explain the mode of feeding and reproduction in Fungi. (5marks)

e) Account for the reasons why Dinoflagellates are considered a unique marine taxa. (5marks)

f) Distinguish cellular molds from plasmodial molds. (5marks)

SECTION B - ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

Discuss herbarium techniques for vascular plants under the following

a) Collection procedures	(5marks)
b) Labelling	(5marks)
c) Pressing	(5marks)
d) Mounting of specimens	(5marks)

QUESTION THREE (20 MARKS)

a)	Describe the life cycle of a named Pteridophyte.	(12marks)
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b) Explain the eight economic importance Pteridophytes. (8marks)

QUESTION FOUR (20 MARKS)

a) Discuss the evolution of Gymnosperms. (12ma	rks)
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b) Discuss the classification of Gymnosperms. (8marks)