

MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF PURE AND APPLIED SCIENCES

DEPARTMENT OF APPLIED SCIENCES

UNIVERSITY ORDINARY EXAMINATION

2017/2018 ACADEMIC YEAR

FIRST YEAR **FIRST** SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

ABT 100 – GENERAL BOTANY

DURATION: 2 HOURS

DATE: 15TH DECEMBER, 2017

TIME: 2.00 – 4.00 P.M.

Instructions to Candidates:

- 1. Answer Question 1 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 ONE - COMPULSORY

QUESTION ONE

(a)	Outline the characteristic features of prokaryotes and eukaryotes	(5 marks)	
(b)	Classify living organisms according to Whittaker	(5 marks)	
(c)	i) State two distinguishing characteristics of cyanophyta	(2 marks)	
	ii) State the reproduction types in the cyanophyta	(3 marks)	
(d)	State five economic importance of bacteria	(5 marks)	
(e)	Describe the structure of a named Euglenophyta (5 n		
(f)	Describe the process of food acquisition in basidiomycetes		
(g)) Explain the mechanism of reproduction in ascomycetes		

SECTION TWO – ANSWER ANY TWO QUESTIONS QUESTION TWO

Discuss alternation of generation in pteridophytes	(20 marks)
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QUESTION THREE

(a) Compare and contrast main characteristics of any two of any of the following families:

	i)	Poaceae	
	ii)	Solanaceae	(14 marks)
(b)) Discuss the economic importance of the families		(6 marks)

QUESTION FOUR

Discuss the evolutionary relationships between gymnosperms and angiosperms (20 marks)