

BOT 111



OFFICE OF THE DEPUTY PRINCIPAL ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER REGULAR EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN MICROBIOLOGY

COURSE CODE:

BOT 111

COURSE TITLE:

BASIC BOTANY II

DATE: 18TH APRIL, 2018

TIME: 9 AM - 12.00 NOON

INSTRUCTIONS TO CANDIDATES

SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

V P. F.

BOT 111: BASIC BOTANY II

STREAM: BSc in Microbiology		DURATION: 5 Hours			
INSTRUCTIONS TO CANDIDATES					
	i. Answer ALL questions from section A and any THREE from	n section B.			
i	i. Diagrams should be used whenever they serve to illustrate to	he answer.			
ii	i. Do not write on the question paper.				
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SE	CCTION A (24 MARKS)				
Qı	uestion One				
a)	State any three methods of vegetative reproduction in Bryophyte	es . (3 Marks)			
b)	Distinguish between roots and rhizoids.	(2 Marks)			
c)	State any three uses of gymnosperms .	(3 Marks)			
d)	Describe the two major groups of angiosperms.	(4 Mark)			
Qı	iestion Two				
a)	List three main types of ecological fires	(3 Marks)			
b)	Define photochemical smog.	(2 Marks)			
c)	State three effects of acid rain.	(3 Marks)			
d)	Highlight four causes of desertification.	(4 Marks)			
SE	CTION D (26 MADVS)				
	action B (36 MARKS)				
	Explain two main reasons for managing environmental pollution	a. (4 Marks)			
	Using examples explain three approaches used in the ma				
U)					
`	pollution.	(6 Marks)			
C)	Explain the following methods used in controlling gaseous pollu				
	(i) Combustion	(1 Mark)			
	(ii) Absorption	(1 Mark)			

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Question Four

Explain what is considered during the following stages in making herbarium specimens:

(i)	Collecting	(3 Marks)
(ii)	Pressing and preserving	(3 Marks)
(iii)	Mounting	(3 Marks)
(iv)	Labeling	(3 Marks)

Question Five

a) Explain four ways in which gymnosperms show evolutionary advancement over ferns.

(8 Marks)

b) Describe the structure and function of the guard cells.

(4 Marks)

Question Six

a) Give an account of the following methods of studying ecological surveys:-

i.	Quadrat method	(5 Marks)
ii.	Transect method	(5 Marks)
b) Hi	ighlight four basic characteristics of an ecosystem.	(2 Marks)

Question Seven

a)	Describe the effects of land pollution.	(8 Marks)
b)	State the role of vascular vessels in plants.	(4 Marks)
