



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY, BACHELOR OF SCIENCE IN BIORESOURCE MANAGEMENT, BACHELOR OF EDUCATION SCIENCE AND BACHELOR AGRICULTURE EDUCATION AND EXTENSION

COURSE CODE:

SBT 422

COURSE TITLE:

AQUATIC BOTANY

DATE:

11th October, 2018.

TIME: 3:00 – 5:00 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

Questi	on one		
a)	State the importance Marine ecosystems (3marks)		
b)	List six classes of organisms found in marine ecosystems	(3marks)	
c)	Describe any 3 zones in the marine ecosystem	(3marks)	
d)	With the help of a diagram describe the three primary zones of a lake	(3marks)	
e)	Freshwater ecosystems:		
	i. Coverpercentage of the Earth's surface	(1mark)	
	ii. Generatepercentage of the primary production	(1mark)	
	iii. containpercentage of the world's known fish species.	(1mark)	
f)	Briefly describe three zones of a pond	(3marks)	
g)	Write short notes on the following:		
	i. Aerenchyma	(1mark)	
	ii. Lenticels	(1mark)	
	iii. Emersed leaves	(1mark)	
h)	Describe Biodiversity	(3marks)	
i)	List six obstacles that freshwater plants overcome in order to survive in water	(3marks)	
j)	Distinguish between Euryhaline and stenohaline organisms	(3marks)	
k)	Question two		
	Discuss aquatic plant communities	(20marks)	
Question three			
	i. Discuss abiotic factors and how they affect aquatic plant communities	(15 marks)	
	ii. Discuss any two anatomical and structural adaptations of freshwater plants	(5marks)	
SECULO DE MANAGERO	on four		
Discuss			
	i. Autotrophic and Heterotrophic organisms	(10marks)	
	ii. Abiotic and characteristics	(10marks)	
Question five			
Discuss sea grass, marine algae and mangrove ecosystems		(20marks)	