



(Knowledge for Development)

KIBABII UNIVERSITY UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER SUPPLEMENTARY EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY AND EDUCATION SCIENCE

COURSE CODE: SBL 428

COURSE TITLE: EVOLUTIONARY BIOLOGY

DATE: 22ND NOVEMBER 2022 TIME: 2.00 -4.00 PM

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 3 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

Question One

a)	Define:	(2 marks)
i.	Coevolution	(2 marks)
ii.	Adaptation	
iii.	Fossils	(2 marks)
iv.	Adaptive radiation	(2 marks)
b)	List the processes that lead to speciation	(5 marks)
c)	Give any three types of fossils	(3 marks)
d)	Discuss the wahlund effect	(5 marks)
e)	Evolution critical in medicine. Justify.	(4 marks)
f)	Is evolution an art, a science or both? Explain your answer.	(5 marks)

Question Two

Sexual dimorphisms exists between many living organisms. Justify this occurrence using relevant examples. (20 marks)

Question Three

The discovery of fossil and archaeological evidence in evolutionary studies has been patchy.

i. Why is it so? (10 marks)
 ii. What alternative evolutionary approach would you recommend in this case? Justify your selection. (10 marks)

Question Four

Cultural evolution has largely impacted human medicine. Using relevant examples, discuss this statement. (20 marks)

Question Five

Discuss the processes leading to evolution.

(20 marks)