Name:	Index No://
9519/3	Candidate's Signature:
BIOLOGY	
Paper 3	Date:
D.T.E	



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN TEACHER EDUCATION

BIOLOGY Paper 3

3 hours

INSTRUCTIONS TO CANDIDATES

March/April 2014 Time: 3 hours

Write your name and index number in the spaces provided above.

Sign and write the date of the examination in the spaces provided above.

This paper consists of TWO sections; A and B.

Answer **ALL** the questions in section **A** and any **THREE** questions from section **B** in the spaces provided in this question paper.

Candidates should answer the questions in English.

For Examiner's Use Only

	TOI Examini		T =
Section	Question	Maximum Score	Candidate's Score
A	1 - 9	40	
В	10	20	
	11	20	
	12	20	
	13	20	
		Total Score	

This paper consists of 16 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A (40 marks)

Answer ALL the questions in this section in the spaces provided after question 13.

	Answ	er ALL me questions in mis section in 1				
1.	State the	e use of each of the following in a Biology laboratory:				
	(a) (b) (c)	cobalt chloride; methylene blue; eosin; sodium hydroxide.	(1 mark) (1 mark) (1 mark) (1 mark)			
2.		aree possible causes of fire hazards during Biology experiments.	(3 marks)			
3.	that can be administered to a nose bleeding individ					
4.	Explair	n eight factors a teacher should consider when constructing a Biology test.	(8 marks)			
5.		ne role of the teacher in ensuring that learners take lesson notes appropriately.	(4 marks)			
6.	State t	hree types of stores used in the Biology laboratory.	(3 marks)			
7.		an raw scores marked out of 100 for each subject be standardized to facilitate	ranking of (3 marks)			
8.	Outlin	e six ways in which a teacher can use a computer in the teaching of Biology.	(6 marks)			
9.	State	any six general objectives of secondary school Biology education in Kenya.	(6 marks)			
		SECTION B (60 marks)				
	Answe	er any THREE questions from this section in the spaces provided after question	on 13.			
10.		Why is over reliance on lecture method discouraged in the teaching of Biole				
	(b)	Give ten guidelines that should be observed when drawing line graphs in B	iology. (10 marks)			
11	. (a)	Why are audio-visual teaching aids important during lesson presentation?	(10 marks			
	(b)	Describe the considerations a teacher of Biology should make when trying demonstration in the preparation room.	out a (10 marks			

12.	2. Describe how plant specimens are preserved using the herbarium technique.					(20 marks)	
13.	Below is an excerpt from a form one Biology syllabus:						
	TOPIC: Objectives:		PHYSIOLOGY end of the topic, the lea define osmosis; explain the role of osmo explain the factors affectorry out experiments of	osis in living organis	ms;		
	Using the ablessons and c	ove info	mation, construct a one elesson.	week scheme of wor	k consisting of	two single (20 marks)	
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