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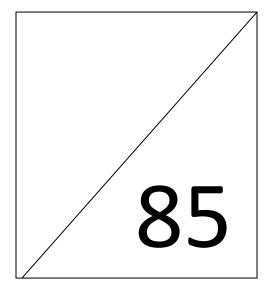
BIOLOGY FORM 1 MARCH 2016 TERM 1 TIME: 2 HRS

NAME:CLASS:ADM NO:	

INSTRUCTIONS

- 1. answer all question sin this paper
- 2. You will be penalized for recording irrelevant information and incorrect spelling especially for technical terms.

For examiners use only



1.	What does the term biology mean?	(1 mk)
2.	(a) Name two major branches of biology.	(2 mks)
	(b) Explain what each of them means.	(2 mks)
3.	Name the branches of biology that deals with the following:	(4 mks)
	(i) scientific study of insects	
	(ii) study of inter relationships of livings and their environment	
	(iii) study of inheritance and variation	
	(iv) study of birds	
4.	In collection of specimens name the apparatus used for:	(4 mks)
	(i) Sucking small animals from rock surface and barks of trees	
	(ii) attracting and trapping small animals including rats	
	(iii) catching crawling animals	•••••
	(iv) picking up small animals	

5.	State two main functions of the microscop	e.	(2 mks)
6.	Mosses, ferns and acasia tree belong to the they all have in common that allow them to		
7.	State one important scientific contribution	made to science by Carolus	s Linnaeus. (1
8.	State five main differences between electrons	on microscope and light mic	roscope.(5 mks)
	Electron Microscope	Light Microscope	
	Electron wheroscope	Light Wheroscope	
9.	Distinguish between permanent slides and	temporary slide.	(2 mks)
10.	Differentiate between resolving power and	d magnifying power of a m	nicroscope. (2 mks
		•••••	• • • • • • • • • • • • • • • • • • • •

11.	What is binomial nomenclature?	(1 mk)			
12.	(a) State three rules that should be followed when naming organism scientific				
	(b) Why is it necessary to classify living things?	(3 mks)			
		•••••			
		• • • • • • • • • • • • • • • • • • • •			
		•••••			
13	Explain why the following processes are important in living organisms;				
15.	(a) reproduction	(2 mks)			
	(b) excretion	(2 mks)			
	(c) respiration	(2 mks)			

locomotion		(2 mks)
fferentiate between plants	_	(5 mks)
Plants	Animals	
drawing of 5 cm in length	n was made of a beetle whose actual leng.	gth was 1cm. calcula
	which organisms are placed.	(5 mks)
nme the five kingdoms in	which organisms are placed.	

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17. Classify a maize plant suing the taxonomic units below.

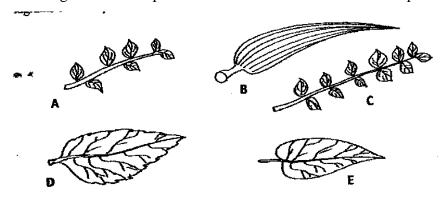
(8 mks)

Taxonomic unit	Maize plant
Kingdom	
Division	
Class	
Order	
Family	
Genus	
Species	
Scientific Name	

18. Complete the table below

eye piece less magnification	objective lens magnification	total magnification
X10	X20	
X15		X200
	X45	X200
X5	X40	

19. The diagram below represents leaves obtained from different plants species.



Using the observable feature only name two types of: (8 mks)

(i) lead venations

	•••••		
	(ii)	arrangement of leaflets	••••••
	(iii) 	leaf types	
	(iv)	leaf margins	
20.	Study	instrument below and answer the following questions.	
	(a) N	ame the parts labelled A, B, C, D, E and F.	(6 mks)
	•••••		• • • • • • • • • • • • • • • • • • • •
	(b) St	ate the functions of the parts labelled E and F.	(2 mks)
	• • • • • • • • • • • • • • • • • • • •		

(c) Give the formula used to	calculate magnification in a light microscope	(1 mk)