Name:	School:
Biology	
S.1	
2019	
13/thours	

## WAKISO- KALANGALA SESEMAT REGION ASSESSMENT SENIOR 1 BIOLOGY 2019

Time: 1hour 45minutes

## **INSTRUCTIONS:**

- Answer all questions in section A and B.
- Section A: Write the letter corresponding to the right answer in the box on the right hand side of each question.
- Section B: Write your answers for this section in the spaces provided.
- Section C: Choose one question and answer it on a separate paper.

## FOR EXAMINERS' USE ONLY

MARKS
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## Answer all questions in this section

	Answer an questions in this section	
1.	A cockroach fell in a non-toxic chemical which only removed its waxy cuticle. The cockroach is likely to die due to	
	A. Excessive loss of water from its body	7
	B. Excessive loss of heat from its body	
	C. Loss of sensitivity to the environment	
	D. Chemical poisoning	
	. Chemical personang	
2.	Toads and frogs are called amphibians because they	
	A. Are able to live both on land and in water	
	B. Cannot control their body temperature.	
	C. Lay eggs in water	
	D. Breath by means of lungs and the skin	
3.	If you were observing a specimen using a microscope without a mirror, which of the following would be affected?	
	A. Enlargement of the specimen	_
	B. Regulation of light entering the microscope	
	C. Collection of light and directing it into the microscope	
	D. Rotation of the turret	
4.	What is the biological reason for land plants to have the stomata mainly located on the lower epidermis of the leaf?	ie
	A. To reduce rate of water loss	$\neg$
	B. To increase on rate of water loss	-
	C. To absorb more light	
	D. To avoid loss of chlorophyll	
5.	What would you do to prove that a given cell is from a plant?	
	A. Test for starch in the cell	_
	B. Observe under a microscope to see if the cell has a nucleus.	
	C. Test for proteins in the cell	
	D. Observe under a microscope to see if the cell has chloroplasts	
6.	Why do we normally eat modified parts of plants like roots and stems?	
0.	A. They contain stored food and water.	
	B. They are medicinal.	
	C. They look attractive to us.	
	D. They are easily available	
7.	Why does a plant ringed like in the illustration below die?	

	C. The stem	i will be weak i is exposed to	direct light			
8.	D. The roots will not receive food from the leaves  Which of the following formulae is correct for calculating magnification of a specimen  when using a hand lens?  A. Size of image × size of the real specimen  B. Size of the image + Size of the real object  C. Size of the real specimen ÷ Size of real image  D. Size of the image ÷ size of the real specimen					pecimer
9.	Zoology is a biological study. The prefix Zoo means?  A. Study of animals  B. Animal  C. Study  D. Organisms					
10.	Which one of the	e following fr	uits is a berry?			
	Fruit	Α	В	С	D	
	Characteristics	Has many seeds in a dry pericarp	Has many seeds and the layers of the pericarp are fused	Has many seeds in a succulent pericarp	Has many seeds arranged along the margin	
11.	Why are fruits dispersed by wind small in size and light in weight?  A. Not to be seen by animals which would eat them.  B. To be easily seen  C. To be easily carried away  D. To easily open to release the seeds					
	C. Removing	he sick persor the breeding under mosquit	points for the m	osquitoes.		
13.	To which kingdom does organism having the following characteristics belong?  (i) It is multi cellular  (ii) It is has a true nucleus in its cells  (iii) It has chitin in the cell wall  (iv) Reproduces by use of spores.  A. Monera  B. Protoctista  C. Fungi  D. Plantae					
14.	The insect has the A. on the Head B. on the Thoracc. on the Abd D. between the	d rax		ne legs located		

' A) (

		at would happen if a body ce	ii iiad a daiiiaged	i cell membrane	?	
	A. B.	Cell activities would not				
	В. С.	The cell will not be able to				
	D.	There would be no control Nothing would enter or le	eave the cell	or leaves the cel		<u> </u>
24.	To a	a farmer of vegetables why w	ould the larva sta	age of a butterfly	be threatening	g to the
	A.	it's the stage of tissue brea	ak down and reor	ganization		
	B.	it's a resting stage	ak down and reor	gaiiizatioii.		
	C.	it's a stage of heavy feeding on vegetation				
	D.	There would be no butterf	lies to pollinate t	he flowers.		
25.	The A.	term used to describe the var	rious stages of de	velopment of an	insect is	
	B.	moulting. reproduction.				
	C.	ecydysis				
	D.	metamorphosis				
			SECTION B			
26.	2)	Answer	all questions in	this section		
20.	a)	Define the term classificat	ion		(021	narks)
		A stopped				
	b)	Why is it necessary to clas	sify living organi	sms?	(04r	narks)
					4 (%) 100.	
	c)	If someone sends you three	Organisms when			
		If someone sends you three but for you they are: Cockre produce the table of visible	uach, nonse tiv ai	nd a tiple Way -1		now d
			Cockroach	Housefly	Tick	
		Number of legs	6	6	8	
		Number of wings	4	2	0	
		Number of body parts	3	3	2	
		Using the characteristics in thelp him identify each after	the table, constru	ct a dichotomou	key that would	J
		help him identify each of the	e organisms on hi	s own.	(04mat would	
						,

27.	a)	Define the term population as applied to	o biological studies	(01mark)				
	b)	Name <b>four</b> methods of determining population and for each method, give example of an animal whose population can be estimated. (04)						
		Method	Example					
		i)						
		ii)						
		iii)						
		iv)						
	c)	State <b>three</b> reasons why the population determined.	of organisms in an ecosyste	m must be (03marks)				
	d)	State <b>two</b> ways of conserving an ecosy	rstem.	(02marks)				
			4:	(04 1 )				
28.	a)	State <b>four</b> reasons why you are a livin i)	g thing	(04 marks)				
		ii)						
		iii)						
		iv)						

	b)	State four differences between plants and animals	(04marks)			
		Plants Anima				
		i)				
		ii)				
		iii)				
		iv)				
	c)	Define the smallest level of classification of living organisms.	(02 mark)			
		SECTION C				
		Answer any one question				
29.	a)	Explain why Fungi are vast and colonize many habitats. (10 marks)				
	b)	i) Structurally what are the differences between fungi and plants.				
		ii) How are fungi similar to plants?	(05 marks)			
30.	a)	List any three observable features common to all adult members				
	<b>L</b> )	Name three discourse arread by magnitace and formal 1				
	b)	Name three diseases spread by mosquitoes and for each disease name the				
		type of mosquito responsible.	(06 marks)			
	c)	Describe how the mosquito is adapted for spreading disease	(06 marks)			
		END				