THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL OF TANZANIA FORM TWO NATIONAL ASSESSMENT

BIOLOGY

033

Time 2:30 Hours

Year: 2022

Instructions

- 1. This paper consists of sections A, B and C with a total of ten (10) questions.
- 2. Answer all questions.
- 3. Section A and C carry fifteen (15) marks each and Section B carries seventy (70) marks.
- 4. All writing must be in blue or black ink except drawing which must be in pencil.
- 5. Cellular phones and any unauthorized materials are **not** allowed in the assessment room.
- 6. Write your Assessment Number at the top right corner of every page.

F	OR ASSESSOR'S	USE ONLY
QUESTION NUMBER	SCORE	ASSESSOR'S INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
TOTAL		
CHECKER	'S INITIALS	



Student's Assessment Number

SECTION A (15 Marks)

Answer all questions.

or each	of the items (i) - (x), choose the	e correct answ	er from the given alternatives and write its letter				
ox prov	ided.		u leaves with dead spots at th	e mar			
ciń	Formers in a certain village for	ound their maiz	e crops have yellow leaves with dead spots at th				
(i)	and tips. Which mineral do th	e maize crops	AND TO 1				
	A Calcium	D	Bulphi				
	C Phosphorus	D	Potassium	1 42.5			
(ii)	The Saranga Football Team's goalkeeper fell down during the match due to muscle cramps. Which is a standard to the saranga football team's goalkeeper fell down during the match due to muscle cramps. Which is a standard for the saranga football team's goalkeeper fell down during the match due to muscle cramps.						
(11)	component in the First Aid ki	t will you use	to give in				
	A Vaseline	В	Spirit				
	C Liniment	D	Scissor				
(iii)	What is the main product of a	naerobic respi	ration in animals?				
(111)	A Lactic acid	В	Alconol				
	C Water	D	Carbon dioxide				
(iv)	Which organisms feed on pri	mary consume	rs?				
N. IV	A Lion, Hyena and Leop	ard	B Leopard, Buffalo and Giraffe				
	C Hyena, Zebra and Wile		D Zebra, Wildebeest and Buffalo	-			
(v)	If there is cholera outbreak in	the nearby sc	hool, which way would you use to prevent the d	isease			
N. 2	A Killing mosquitoes	В	Covering nose when sneezing				
	C Boiling drinking water	D	Eliminating rat and fleas				
(vi)	Why is screening of donors'	and recipients	'blood samples before transfusion important?				
(11)	A Ensuring compatibility		Preventing bleeding				
	C Ensuring incompatibi		Enhancing coagulation				
(vii)	Which apparatuses are used for heating substances in the Biology laboratory?						
()	A Test tube holder and T	The state of the s	B Spirit lamp and Bunsen burner				
	C Bunsen burner and Th		D Spirit lamp and Test tube rack				
(viii)	Why is it necessary to chew	food properly	hefore swallowing?				
,	A Dissolves chemicals ta						
	B Kills harmful organism						
	C Helps digestive enzym						
	D Breaks down small pic						
(ix)	Which statement is true about the virus?						
	A It is active outside the host cell but dormant inside it						
	B It is active inside the host cell but dormant outside it						
	C It carries life processes when outside the host cell						
	D It has both DNA and I	RNA as geneti	c materials	L			
(x)	How is plague transmitted from one person to another?						
	A Through sexual interc	ourse with an	infected person				
	B By contact with water	containing pa	rasitic larvae	Γ			
	C Through tsetse fly bite	s from infecto	ed to a healthy person				
	D Through rat fleas bite	Corner in Carte	I to a healthy person	-			

Student's Assessment Number

Match the descriptions of warning signs in List A with the corresponding warning sign label in List B by writing the letter of the correct response below the item number in a table provided.

	List B
List A Substances which are dangerous and may cause death. Substances which can catch fire easily. Substances which emit harmful radiation. Substances which can damage the skin and other tissues. Substances containing microbes which can cause disease.	A Corrosive B Explosive C Toxic D Irritant E Fragile F Flammable G Biohazard H Radioactive

nswer			(iii)	(iv)	(v)
nswer List A	(i)	(ii)	(111)	(1.7)	
List B					

SECTION B (70 Marks)

			Answer all questions in this section.
3.	(a)	Identif	by the organs which are used for gaseous exchange in the following organisms:
		(i)	Cow
		(ii)	Frog
		(iii)	Maize leaf
		(iv)	Fish
	(b)	Plants	s cannot survive without carrying out the process of gaseous exchange. In three points, justify this nent.
		(i)	
			(A)
			ACCOUNT OF THE STATE OF THE STA

			Student's As.	sessment Number	
Draw t	the follo			ology laboratory and state t	
(a)	Spatu	la	(b)	Tripod stand	
(c)	Test to	ube holder	(d)	Filter funnel	
Two p sickle (a)	cen ana	sited the hospital compla emia. he six symptoms of such		dy weakness. The doctor di	iagnosed them wit

		Student's Assessment Number
	(iii)	. VII. 100 CONTRACTOR (STEEL TO THE PROPERTY OF THE PROPERTY O
	(iv)	[[]][][][][][][][][][][][][][][][][][][]
	(v)	
	(vi)	
715	State Iv	vo ways you would recommend to the patients so as to control the disorder.
(b)	(i)	
	(.,	/
	(ii)	
(a)	Outlin	e three similarities between plant and animal cells as seen under the light microscope.
7 12	(i)	
	(1)	
	(ii)	
	()	
	(iii)	
	(111)	
(b)	Draw	a diagram of a plant cell as seen under the light microscope and label six parts.
. For	rm Two	students classified mosses and ferns into the same Division simply because they have
/. For ch	orophyl	students classified mosses and ferns into the same Division simply because they have I for photosynthesis. ch classification system did they use?
ch	orophyl	for photosynthesis.
ch	orophyl	for photosynthesis.

		Student's Assessment
(b)	Briefl	y explain four demerits of the classification system used in 7 (a).
18.7	(i)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(ii)	
	(iii)	
	(iv)	
(a)	Using	a Bunsen burner. g the materials and apparatuses given, outline four procedures they would follow to instrate the process of diffusion.
	(i)	
	(ii)	
	(iii)	
		,
	(iv)	
(b)	In tw	o points, briefly explain the importance of the named process in 8 (a) to living organisms.
	(i)	who tiving organisms.

8.

			Student's Assessment Number
		(ii)	
).	neigh	ibouring	araza, selected you to become the chairperson for cholera prevention campaign in the community. Briefly explain five ways you will use to educate the community about the f the disease.
	(i)		
	(ii)		
	(iii)		
	(iv)		
	(v)		

Student's Assessment Number ...

SECTION C (15 Marks) Answer question ten (10).

	Self-employed women have come to Dar es Salaam for training in food preservation methods. Elaborate to
0.	tham the civ methods of food Drescryation.
	them tile six methods or took prosessions.
	·
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