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

033

BIOLOGY

Time 2:30 Hours

Year: 2024

Instructions

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

FOR A	SSESSOR'S US	
QUESTION NUMBER	SCORE	ASSESSOR'S INITIALS
1		
2		
3		
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5		
6		
7		
8		
9		
10		
TOTAL		
CHECKER'S INITIALS		



Student's Assessment Number

SECTION A (15 Marks)

Answer all questions in this section.

	All	11101 1111 1		nswer from the given alternat	ives and		
1 0	on analy of the items (i) - (X) choose the corn	reet a	nswer from the given are			
1. F	rite its letter in the box pro	vided.					
***	the its letter in the box pass	11000		- un that had t	meleus not		
(i)	During experiment	a student obser	ved :	an organism's cell that had r			
X-3	bounded by membr	ane. From which	orgu		Į.		
	A Human being		В	A maize			
	C Bacterium		D	Virus	J.		
(ii)	Study the following	food chain and a	answe	er the question that follow:			
	Shrubs W	Hyena - Fungi					
	Which trophic level						
	A Primary const		В		+		
	C Producer		D	Tertiary consumer			
				2 7000 2 7000			
(iii)	Which organisms be	long to the Divis	sion I	Bryophyta'?			
	A Paramecium a	nd euglena		Ferns and liverworts			
	C Liverworts and	d amoeba	D		1		
				E-12-100 cm			
(iv)	In which specific par	t of the mamma	lian i	espiratory system does trappi	ne of class		
	and interoorganisms	take place?		The state of the s			
	A Alveolus		Epigle	ottis			
	C Nose			ragm			
2.4	Take to the second seco						
(v)	Which part of the n	nicroscope shoul	ld on	e use to regulate the amoun	V - 2.P. 18 - V - 1		
		or to the conden	ser?	to regulate the amoun	t or traffit		
	A Stage clip		В	Diaphragm			
	C Hinge screw		D	Ocular tube			
			355				
(vi)	Which blood vessel transports deoxygenated blood from the heart to the la						
	A Pulmonary vein	anoports dedxygi	enate	d blood from the heart to the	lunos?		
	C Mesenteric arter			amonary artery	Sur		
	c mesentene aner	y I)	Coronary vein	1 1		
(vii)	How one IIII/// Inc.						
4,411)	How can HIV/AIDS be	e prevented from	1 spre	eading?			
		ALC: I C. III AT ALL CTRACTERS					
	b by touching bear	ile's blood wist	1	hand			
	2 dansids on the	HIG DIROPESANA A I	1. 1.	2			
	D By abstaining from	m sexual interco	Hrsa	1			
(viii)	W/L		the state of				
(VIII)	why is it dangerous to						
	A It can cause death	when taken into	the	had where children play?			
	Why is it dangerous to put kerosene in the places where children play? A It can cause death when taken into the body B It can cause injury when poured on the skin C It emits harmful radiations which can cause damage D It contains microorganisms which can eause damage						
	C It emits harmful ra	idiations which	n the	skin	-		
	D It contains microo	rganisme was:	can e	ause damage			
		which	caus	e diseases			

			Student's	Assess	ment N	Number	ractice would
(X)	A B C D	Limiting the an Ignoring the ury Taking adequat Reducing the ir	ns of passing eat the probler nount of fruits ge to go for a te amount of f ntake of veget	out hard n? s in the c long cal libres in ables an	l and dry liet l the diet d fruits	, faeces. William	
x)	(ii) (iii) (iv)	Syphilis and go Tuberculosis and Hepatitis B and Which diseases A (iii) and (iv	onorrhoea and plague d AIDS s are transmit (iv)	ted thro	igh unp B D	rotected sexual in (i) and (ii) (ii) and (iv)	ntercourse?
ast E	b by wi	s of First Aid co	omponents in of the corre	List A	with the	eir corresponding ow the item nu	g components mber in a ta
ast E	b by wi	iting the letter	omponents in of the corre	List A	with the	eir corresponding ow the item nu List B	g components mber in a ta
rovid	led.	s of First Aid conting the letter List A	of the corre	ct respo	Sterile	List B e gloves	g components mber in a ta
rovid	Reduce Clean	List A cing muscle pai	n. wounds.	A B C	Sterile Adhe Cotto	List B e gloves sive bandage n wool	g components
(i)	Reduce Clean	List A	n. wounds.	A B	Sterile Adhe Cotto Linin	List B e gloves sive bandage n wool	g components
(i) (ii) (iii)	Reduce Clean	List A cing muscle pai	n. wounds.	A B C D E F	Sterile Adhe Cotto Linin Petro	List B e gloves sive bandage n wool nent leum jelly killers	g components mber in a ta
(i) (ii) (iii) (iv)	Reduce Clean Cover	List A cing muscle pai ing and drying ring small wour	n. wounds.	A B C D E	Sterile Adhe Cotto Linin Petro Pain Sciss	List B e gloves sive bandage n wool nent leum jelly killers	g components mber in a ta
Match List E provid (i) (ii) (iii) (iv) (v)	Reduce Clean Cover Securi	List A ring muscle pairing and drying ring small wour ing bandages.	n. wounds.	A B C D E F	Sterile Adhe Cotto Linin Petro Pain Sciss	List B e gloves sive bandage n wool nent leum jelly killers	g components mber in a ta

List B

Student's Assessment Number

SECTION B (70 Marks)

Answer all questions in this section.

3.	(a) O	utline seven steps for carrying out scientific investigation.
J.		and the same particular and th
	(i)	
	(ii)	
	(iii)
	(iv)	
	(v)	***************************************
	(vi)	
	(vii	
0	(b) Stat	te the sense organs used in making the following observations.
	(i)	Colour change during food test experiment.

	(ii)	Identifying the smell of a flower
	(iii)	Identifying the texture of sand.

	. 6	
4. B	riefly exp	plain five methods of preventing the spread of malaria.
(i)		

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(ii)		***************************************

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(iii)		
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	(iv)		

	(v)		
			,,
			to take place?
5.	(a)	Wha	at are the four major requirements for Photosynthesis to take place?
		(i)	
		(ii)	
		(iii)	
		(iv)	
	(b)	In the	aree points, support the statement that "Photosynthesis is an important process to living organisms."
		(i)	
			34-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1
		(ii)	
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		(iii)
		(11)

6.	How	does gaseous exchange occur across the alveolus? Briefly explain by giving five
	(i)	

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	(ii)	
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	(iii)	***************************************
		***************************************
	(iv)	

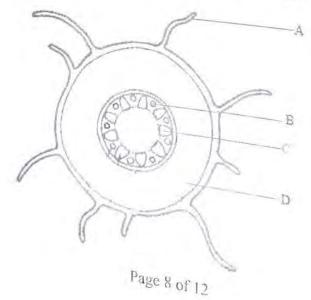
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(7.)			
		The state of the s	
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		for plant leaf and label its four parts.	
(1)	Draw	the external structure of a plant leaf and label its four parts.	
			1
16	Crate	one function of any two parts which you have labelled in 7 (a).	
(b,	) state	. Wile 1	
	(1)		•

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(11)	Name the parts labelled A. B. C and D.
	***************************************
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(la)	What are the functions of the parts labelled A, B and C?
(b)	
	······································
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	The state of the s
	SECTION C (15 Marks)
	Answer question ten (10).
	Thy is blood circulation important in animals? Explain by giving six points.
W	'hy is blood circulation important in annual property in the control of the circulation important in annual property in the circulation important in annual property in the circulation important in annual property in the circulation in the ci
7.	
2.2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

10.

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	(ii)	The second secon	
	***************************************	the Table from Ki	ngdom to the Phylum level.  Phylum
8. (a)	Classify the organisms	given in the Tue	Phylum
	Organisms	Kingdom	
	(i) Plasmodium		
	(ii) Amoeba		
	(iii) Mushroom		
(b)	(1) Amoeba	ge of the following organis	
	*****		
	***************************************	*****************************	
	***************************************		
	***************************************		
	(ii) Mushroom		
	***************************************		***************************************
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9. The following Figure shows the arrangement of vascular bundles in a monocotyledonous root. Study it careful and answer the questions that follow:



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