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

033

BIOLOGY

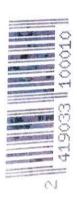
Time 2:30 Hours

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.
- 6. Write your Assessment Number at the top right corner of every page.

FOR A	SSESSOR'S US	E 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 in this section.

		4.5	spenser from the given alternatives an	El .
1. F	For each of the items (i) - (x), choose the con	rrect :	answer from the	
W	THE HE PRIET IN THE BUY THUTTUES.			
			an organism's cell that had nucleus	not
(i)	During experiment a student obse bounded by membrane. From which	rveu -	mism was the cell taken?	
	bounded by membrane. From which	II OIL	dirion.	
	A Human being	D	A marke	
	C Bacterium	D	Virus	= = #
/::>	5. 1. 1. 6.11		the quartien that follow:	
(ii)	Study the following food chain and	answ	er the question that remai	
	Shrubs Wildebeests		Hyena - rung.	
	Which trophic level is occupied by t			
	A Primary consumer	В		
	C Producer	D	Tertiary consumer	
(iii)	Which organisms hall be			1
(111)	organishis belong to the Divi			
	- manifectarii and cugiciia		Ferns and liverworts	
	C Liverworts and amoeba	D	Liverworts and mosses	
(iv)	In which specific part of the	1.	Server • The server	
	and microorganisms take place?	anan	respiratory system does trapping of d	ust
	Λ Λ11	г.,		
	C Noos	Epigl		
	C Nose D	Diaph	nragm	
(v)	Which part of the migrassons about	1.1	See	
	passing from the mirror to the conder	lid or	ne use to regulate the amount of li	ght
	A Stage clip	1501.		
		В	Diaphragm	
	C Hinge screw	D	Ocular tube	
(vi)	W71 . 1 . 1 .			
(vi)	which blood vessel transports deoxys	genate	ed blood from the heart to the lungs?	
		В	Pulmonary artery	
	C Mesenteric artery	D	Corona	
			Coronary vein	
(vii)	How can HIV/AIDS be prevented from	1223		
	A By sharing skin piercing instrum	m spr	eading?	
	B By touching people's black instrum	ients		
	B By touching people's blood with	bare	hand	
	y domaining from sexual interce	ourse		
(viii)	Why is it dangerous to put kerosene in A It can cause death when taken int B It can cause injury who			
**************************************	A It can cause death the resence in	the r	places whom a tri	
	A It can cause death when taken int B It can cause injury when page	o the	body	
	B It can cause injury when poured of C It emits harmful radiations and it.	on the	okin.	
	D It can its narmful radiations which	Can .	ovill.	
	C It emits harmful radiations which D It contains microorganisms which	cuii (cause damage	
	· mel	i caus	se diseases	

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	Studen	's Assessment Number	h practice would				
(is)	Your friend complains of pass	g out hard and dry faeces. Which	in p.				
(2)	Your friend complains of passing out hard and dry faeces. Which practice would you advise him to treat the problem?						
	A Limiting the amount of fi						
	B Ignoring the urge to go for						
	C Taking adequate amount	f fibres in the diet					
	D Reducing the intake of vo	retables and fruits					
	medicing the intake of the	the	t follow:				
(x)	Study the following set of dise	ses then answer the question tha	1 10110				
2	(i) Malaria and bilharzia						
	(ii) Syphilis and gonorrhoea						
	(iii) Tuberculosis and plague						
	(iv) Hepatitis B and AIDS		d intercourse?				
	Which discusses are transmitted through unprojected solvers						
	A (iii) and (iv)	B (i) and (ii)					
	C (i) and (iv)	D (ii) and (iv)					
	C (I) and (IV)						
Match List E provid	the uses of First Aid component by writing the letter of the colled.	rect respons	number in a table				
	List A	List B					
/:\	Reducing muscle pain.	A Sterile gloves					
(i)	Reducing muscle pain.	B Adhesive bandage					
7::5	Cleaning and drying wounds.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
(ii)	Cleaning and drying wounds.						
/···×	Covering small wounds.	D Liniment					
(iii)	Covering small woulds.	E Petroleum jelly					
(iv)	Securing bandages.	F Pain killers					
(iv)	becaring bandages.	G Scissors					

List A	(i)	(ii)	(iii)	(iv)	(v)
List B					

H

Safety pins

Treating burns and scalds.

(v)

Student's Assessment Number

SECTION B (70 Marks)

Answer all questions in this section.

		and investigation.
3.	(a)	Outline seven steps for carrying out scientific investigation.
		(i)
		(ii)
		(iii)
		(iv)
		(v)
		(vi)
		(vii)
	(b)	State 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.

4. I	Briefl [*]	explain five methods of preventing the spread of malaria.
(i) .	

	3	***************************************
/::	٠٠.	
(ii		***************************************
	••	
	**	
	• • •	
(iii)	***************************************
1.57	***	***************************************

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	(iv)		
	(v)		
			to for Photosynthesis to take place?
5.	(a)	Wha	t are the four major requirements for Photosynthesis to take place?
		(i)	
		(ii)	
		(iii)	
		(iv)	
	(b)	In th	aree points, support the statement that "Photosynthesis is an important process to iving organisms."
		(i)	
		(ii)	*
		(11)	

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		(iii)	

6.	How	does	gaseous exchange occur across the alveolus? Briefly explain by giving five
	(i)		
	8.5.	20000	
		••••	······································

	(ii)	••••	
	8776	****	

		••••	
	(iii)	*****	
	(***)	*****	

	(iv)		
	(iv)		

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(7.)	- 11 TO NO - 10 TO NO - 12 TO N	
	(1) 一つのでは、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これ	
- 2 \	Draw the external structure of a plant leaf and label its four parts.	
(a)	Dian the con-	
		1
(b)	State one function of any two parts which you have labelled in 7 (a).	
	(i)	

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		Student's Assessment Number
	(a)	Name the parts labelled A, B, C and D.
		What are the functions of the parts labelled A, B and C?
	(b)	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

		and the second s
		SECTION C (15 Marks) Answer question ten (10).
		Allswei question
10	W/h	y is blood circulation important in animals? Explain by giving six points.
10.	VV II	y 15 blood en

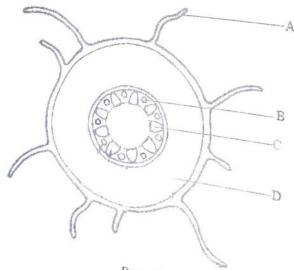
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+ 1			W 0	Student's Assessmen	t Number
		(ii)			

					Kingdom to the Phylum level. Phylum
8.	(a)	Clas	sify the organism	is given in the Table 1707	Phylum
			Organisms	Kingdom	
		(i)	Plasmodium		
(4)		(ii)	Amoeba		
	7.50	(iii)	Mushroom		
	(b)	Provi	de one disadvant Amoeba	age of the following organ	isms to human being.
		(ii)	Mushroom		

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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