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

033 BIOLOGY

Time: 2:30 Hours Yeaar: 2020

Instructions

- 1. This paper consists of sections A, B and C with a total of **eleven (11)** questions.
- 2. Answer **all** questions in sections A and B and **one** (1) question from section C.
- 3. Section A carries thirty (30) marks, section B fifty (50) marks and section C carries twenty (20) marks.
- 4. All writing must be in blue or black ink **except** drawing must be in pencil.
- 5. Cellular phones 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 ASSESSOR'S USE ONLY					
QUESTION NUMBER	SCORE	ASSESSOR'S INITIALS			
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
TOTAL					
CHECKER'S II	CHECKER'S INITIALS				

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ыu	ueni s	Assessment	number	

SECTION A (30 Marks)

Answer all questions in this section.

1. For each of the items (i) - (x), choose the correct answer from among the given alternatives and vits letter in the box provided.					nd write	
	(i)	Whi	ch condition occurs when a plant cell i	s imm	ersed in highly concentrated solution?	
	()	A	Turgidity	В	Crenation	
		C	Plasmolysis	D	Haemolysis	
	(ii)		process by which green plants and of own food is known as	ther o	organisms use sunlight energy to man	ufacture
		A	respiration	В	digestion	
		C	photosynthesis	D	nutrition	
	(iii) Which storage organ does sugarcane stores its food after photosynthesis?					
	(111)	A	Stem	В	Root tuber	
		C	Tap root	D	Rhizome	
		C	1 ap 100t	D	Killzonic	
	(iv)	The	following are the end products of anae			
		A	energy.	В	lactic acid.	
		C	carbon dioxide.	D	alcohol.	
	(v)	Whi	ch organisms belongs to Kingdom Plan	ntae?		
	` '	A	Fern and amoeba	В	Moss and mucor	
		C	Liverwort and yeast	D	Fern and moss	
	(vi)	Ract	eria and fungi are ecologically referred	1 to ac		
	(11)	A	producers.	B	decomposers.	
		C	parasites.	D	predators.	
		C	parasites.	D	predators.	
	(vii)		xpected event which can cause injury a			
		A	accident.	В	emergency.	
		C	outbreak.	D	disaster.	
	(viii)		liquid induced into the body of an wn as	organ	ism so as to increase antibody produ	iction is
		A	tissue fluid.	В	lymph.	
		C	vaccine.	D	plasma.	
	(iv)	Door	ble with talking behaviour while eating	oro o	ansidered to have	
	(ix)	A	bad manner.	B	table manner.	
		C	talkative manner.	D		
		C	taikative iliaililei.	ע	chatty manner.	
	(x)	Arte	ries have thick muscular walls because	they	-	
		A	at low pressure.	В	at high pressure.	
		C	towards the heart.	D	away from the heart.	

Student	's A	<i>Issessment</i>	Λ	Number			 	 		 	

	e items (i) - (x), waspaces provided.	vrite True if a sta	tement is correct	or False if a	state	ement is not		
(ii) Cholera (iii) During i (iv) Vena ca (v) Sharing (vi) Zoologis (vii) Bile is a (viii) Produce (ix) All mem (x) Sitting u	va transports deox of towels can spread of is a person who greenish yellow l rs are organisms to abers of Kingdom pright when eatin	ough contaminate agm relaxes and be expenated blood for ead STI's	ed food	aped				
		List A				List B		
(i) Ability	y of the body to re	esist infection and	l disease		Α	Disease		
	vasion of pathoge			n.	В	Vaccination		
(iii) A prod	cess of inducing a	ntigens into a hea	althy person.		С	Infections		
(iv) A cone	dition that affects	the health of the	body and is chara	cterized	D	Vectors		
by cer	tain symptom.				Е	Immunity		
(v) Agents	s which spread pa	thogens in the co	mmunity.		F	Endemic		
					G	Antibodies		
					Н	Pandemic		
Answers	Answers							
List A	(i)	(ii)	(iii)	(iv)		(v)		
List B								
Complete each of the following statements by writing the correct answer in the spaces provided. (i) The sticky fluid in the nose that helps to trap dust is known as								

2.

3.

4.

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SECTION B (50 Marks)

Answer all questions in this section.

5.	(a)	Differentiate eukaryotic from prokaryotic cells.
(b)	Choose any two parts found in an animal cell and briefly explain one function for each. (i)	
		(ii)
	(c)	Why most of the plant cells have cellulose cell wall? Briefly explain.
6.	(a)	State three laboratory rules. (i)
		(ii)

(b) **Figure 1** represents an instrument used to magnify too small objects or organisms in a Biology laboratory. Study it carefully and then answer the questions that follow:

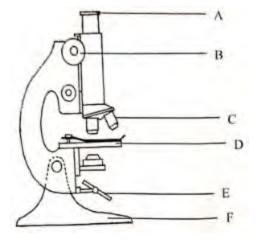


Figure 1

	(i)	Name the parts labeled A - F
		A
		В
		C
		D
		E
		F
	(ii)	State the function of the part labeled E.
7. (a)	Why	is food chain considered to be a simple transfer of energy? Briefly explain.
4.		
(b)		struct four possible food chains by using the following organisms:
(b)	Gras	sses, Lion, Bacteria, Zebra, Hyena and Giraffe.
(b)	Gras (i)	sses, Lion, Bacteria, Zebra, Hyena and Giraffe.
(b)	Gras	sses, Lion, Bacteria, Zebra, Hyena and Giraffe.

	(c)	-	ain the role played by the following organisms in the food chains you have constructed in above. Bacteria.
		(ii)	Grasses.
8.			food sample solution Q changed to purple colouration when 1 cm ³ of sodium hydroxide by 2-3 drops of copper II sulphate solution were added to it.
	(a)	Ident	tify a food substance present in the solution Q.
	(b)	State (i)	two functions of the food substance present in the solution Q .
		(ii)	
	(c)	(i) (ii) (iii) (iv)	five natural sources of food substance contained in the solution Q .
9.	(a)	(v) State (i)	the use of the following components of First Aid kit. Cotton wool
		(ii)	New razor blade
		(iii)	Soap
		(iv)	Iodine tincture

(b)		four importance of providing First Aid to a person who has been bitten by a snake.
	(i) (ii)	
	()	
		SECTION C (20 Marks) Answer one (1) question from this section.
	cribe sificat	two merits and two demerits of each of the artificial and the natural systems of ions.
11. Expl	lain th	e importance of transport of materials in animals. Give six points.
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