

Candidate's Examination Number ...

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

033

BIOLOGY

Time 2:30 Hours

Tuesday, 15th November 2016 a.m.

Instructions

- This paper consists of sections A, B and C.
- Answer all questions in sections A and B and one (1) question from section C.
- Except for diagrams that must be drawn in pencil, all writings should be in blue or black pen.
- Answers must be written in the space provided in this answer sheet.
- Calculators and cellular phones are not allowed in the examination room.
- Write your Examination Number at the top right corner of every page.

FOR	EXAMINERS' USE	ONLY
QUESTION NUMBER	SCORE	EXAMINERS' INITIALS
1		
2		
3		
4		
5	Carrier Control	
6		
7		
8		
9		
10		
TOTAL		

Candidate's Examination Number SECTION A (30 Marks)

			Ans	wer all questio	ns in th	iis section.		
or eac	ch o	f the items (i tter in the bo) - (x) x prov	, choose the corided.	rrect ar	iswer among ti	he give	n alternatives and
	Ch	olera is a disc	ease tr	ansmitted by a	n organ	non called		
	A	Flea	В	Housefly	C	Mosquito	D	Bacteria.
)	Zoc	ology is defin	ed as	the study of				
	A	Animals	В	Fungi	C	Plants	D	Cells.
	The	root-like str	ucture	of a Moss plan	it whic	h provide and	horage	to the ground is
	A	capsule	В	spores	C	seta	D	rhizoids.
) 34	A pl	ace where or	ganis	ms are found is	know	n as		-
		society	В				D	niche.
k	A se	cretion confa	uning	enzymes whic	h dige:	it both protein	s and c	carbohydrates is
1		Bile			В	Mucus		
C		Pancreatic j	uice		D	Saliva.		
V	Vhic	h of the follo	owing	cell structure	differe	ntiate an anim	ral cell	from plant 112
A		Cytopiasm			В	Cell wall	mi con	nom plant cens
C		Cell membr.	ane		D	Nucleus		
TI	he v	alve separat	ing th	e left auricle a	nd left	ventricle is c	alled	
A		bicuspid val	ve		В			
C		tricuspid val	ve		D	septum val	ve.	
Fin	re a	ccident can l	e cau	sed by the foll	lowing	except		
A		electric fault						
	t	ourning of ch	arcoa	stove.				
D	5	moking in a	reas s	elected as smo	king 2	ones.		
Oxy	U.S.	ing routes.					namm	al takes one of the
A	b	ronchi - broi	nchio	les - trachea -	alveol	i.		
В	tr	achea - bron	chiol	es - bronchi -	alveol	É		
C	tra	achea - bron	chi -	bronchioles -	alveol			
D	br	onchioles -	brone	hi - trachea -	alveol			
))) () () () () () () () () () () () (Ch A C C Which A C C Which A C C Fire a A C C C C C C C C C C C C C C C C C C	Cholera is a disa A Flea Cholera is a disa	or each of the items (i) - (x) rite its letter in the box proventie its letter in the box proventies in the box proventies its letter in the box p	or each of the items (i) - (x), choose the corrite its letter in the box provided. Cholera is a disease transmitted by an A Flea B Housefly Zoology is defined as the study of A Animals B Fungi The root-like structure of a Moss plan called A capsule B spores A place where organisms are found is A society B community A secretion containing enzymes which known as A Bile C Pancreatic juice Which of the following cell structure A Cytoplasm C Cell membrane The valve separating the left auricle at A bicuspid valve C tricuspid valve Fire accident can be caused by the foll A electric fault. B burning of candles. C burning of charcoal stove. D smoking in areas selected as smotory of trachea - bronchioles - trachea - B trachea - bronchioles - bronchioles - trachea - B trachea - bronchi - bronchioles - trachea - B trachea - bronchi - bronchioles - trachea - B trachea - bronchi - bronchioles - trachea - B trachea - bronchi - bronchioles - trachea - B trachea - bronchi - bronchioles - trachea - B trachea - bronchi - bronchioles - trachea - B trachea - bronchi - bronchioles - trachea - B trachea - bronchi - bronchioles - bronchioles - trachea - B trachea - bronchi - bronchioles - bronchioles - trachea - bronchi - bronchioles - bronchioles - trachea - B trachea - bronchi - bronchioles - bronchioles - trachea - bronchi - bronchioles - bronch	or each of the items (i) - (x), choose the correct arrite its letter in the box provided. Cholera is a disease transmitted by an organ A Flea B Housefly C Zoology is defined as the study of A Animals B Fungi C The root-like structure of a Moss plant whice called A capsule B spores C A place where organisms are found is know A society B community C A secretion containing enzymes which diges known as A Bile B C Pancreatic juice D Which of the following cell structure differer A Cytoplasm B C Cell membrane D The valve separating the left auricle and left A bicuspid valve B C tricuspid valve D Fire accident can be caused by the following A electric fault. B burning of candles. C burning of charcoal stove. D smoking in areas selected as smoking a containing routes: A bronchi - bronchioles - trachea - alveol B trachea - bronchi - bronchioles - alveol C trachea	Cholera is a disease transmitted by an organism called A Flea B Housefly C Mosquito Zoology is defined as the study of A Animals B Fungi C Plants The root-like structure of a Moss plant which provide and called A capsule B spores C seta A place where organisms are found is known as A society B community C habitat A secretion containing enzymes which digest both protein known as A Bile B Mucus C Pancreatic juice D Saliva. Which of the following cell structure differentiate an anim A Cytoplasm B Cell wall C Cell membrane D Nucleus The valve separating the left auricle and left ventricle is can be included by the following except A cleetric fault. B burning of candles. C burning of charcoal stove. D smoking in areas selected as smoking zones. Oxygen passing from the atmosphere into the blood of a refollowing routes: A bronchi - bronchioles - trachea - alveoli. B trachea - bronchioles - trachea - alveoli. C trachea - bronchi - bronchioles - alveoli.	or each of the items (i) - (x), choose the correct answer among the give rite its letter in the box provided. Cholera is a disease transmitted by an organism called A Flea B Housefly C Mosquito D Zoology is defined as the study of A Animals B Fungi C Plants D The root-like structure of a Moss plant which provide anchorage called A capsule B spores C seta D A place where organisms are found is known as A society B community C habitat D A secretion containing enzymes which digest both proteins and a known as A Bile B Mucus C Pancreatic juice D Saliva. Which of the following cell structure differentiate an animal cell A Cytoplasm B Cell wall C Cell membrane D Nucleus The valve separating the left auricle and left ventricle is called A bicuspid valve B semilunar valve C tricuspid valve D septum valve. Fire accident can be caused by the following except A electric fault. B burning of candles. C burningof charcoal stove. D smoking in areas selected as smoking zones. Oxygen passing from the atmosphere into the blood of a mamm following routes: A bronchi - bronchioles - trachea - alveoli. B trachea - bronchi - bronchioles - trachea - laveoli. C trachea - bronchi - bronchioles - alveoli.

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(x)	The correct hierarchical order of grouping organisms is A Kingdom, Phylum, Class, Order, Family, Genus, Speci B Kingdom, Phylum, Order, Class, Family, Genus, Speci C Species, Genus, Family, Order, Class, Phylum, Kingdom, Phylum, Class, Family, Order, Species, Genus, Genus, Family, Order, Species, Genus, Order, Order, Order, Order, Order, Order, Order, Order, Order	om. nus.						
In eac staten	h of the following statements, write TRUE if a statement is conent is not correct. Beriberi, gonorrhea and syphilis are diseases caused by bac	teria						
(ii)	Blood capillaries are narrow and their walls are one cell this	ick						
(iii)	Rickets is prevented by increasing the amount of vitamin D in a diet							
	Anaerobic respiration uses oxygen while aerobic respiration do not use oxygen							
(iv)	Gaseous exchange surface must have large alveoli							
(v)	Scientist uses beam balance to measure volume							
(vi)	A person with blood group AB is called universal donor							
(vii)	A person with blood group Ato is carried and							
viii)	Heartburn is a disorder of digestive system							
viii)								
(ix)	Photosynthesis uses water and release oxygen							
(ix)	Photosynthesis uses water and release oxygen It is useless to keep a First Aid Kit at schools							
(ix) (x)	Photosynthesis uses water and release oxygen	riting the correct letter of the rovided.						
(ix) (x) Materespe	Photosynthesis uses water and release oxygen	riting the correct letter of the rovided. List B A Kingdom						
(ix) (x)	Photosynthesis uses water and release oxygen	riting the correct letter of the rovided. List B A Kingdom B Phylum C Class						
(ix) (x) Materespective (i)	Photosynthesis uses water and release oxygen	List B A Kingdom B Phylum C Class						
(ix) (x) Matcrespo	Photosynthesis uses water and release oxygen	List B A Kingdom B Phylum C Class D Species E Family F Genus G Order						
(ix) (x) Matcrespo	Photosynthesis uses water and release oxygen	List B A Kingdom B Phylum C Class D Species E Family F Genus G Order H Kingdom Monera						
(ix) (x) Matcrespo	Photosynthesis uses water and release oxygen	List B A Kingdom B Phylum C Class D Species E Family F Genus G Order H Kingdom Monera I Division Pteridophyta						
(ix) (x) Matcrespo	Photosynthesis uses water and release oxygen	List B A Kingdom B Phylum C Class D Species E Family F Genus G Order H Kingdom Monera I Division Pteridophyta J Division Bryophyta K Kingdom Plantae						
(ix) (x) Matcrespo	Photosynthesis uses water and release oxygen	List B A Kingdom B Phylum C Class D Species E Family F Genus G Order H Kingdom Monera I Division Pteridophyta J Division Bryophyta K Kingdom Plantae						

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(10)	(111)	((1)	(v)	(41)	(vii)	(viii)	(18)	(1)

SECTION B (50 Marks)

Answer all questions in this section.

Figure 1 represents a diagram of simple animal cell. Study the diagram then, answer the
questions that follow.

ANSWERS List A

List B

(1)

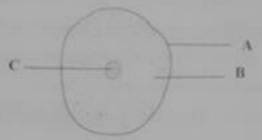


Figure 1

(0)	Nam	to the water labeled with Law A. Th. A. Co.
(197	A	the parts labeled with letter A, B and C.
	В	
	C	
(b)	Give	the function of the part labeled by letter C

(c) Give three differences between animal cell and plant cell.

	Animal cell	Plant cell
(i)		- Inni Cell

	***************************************	***************************************
(ii)		
	***************************************	***************************************
111)		

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5	Defin		lowing terms;
		(i)	Laboratory
		(ii)	Dislame
			Biology
		(iii)	Botany
	(b)		the uses of each of the following laboratory apparati: Microscope
		(1)	Microscope
		(ii)	Thermometer
		(iii)	Test tube
		(iv)	Test tube holder
6.	(a)		is the meaning of the following terms:
		(i)	Food chain.

		(ii)	Trophic levels.
			440-41-1-41-4-4-4-4-4-4-4-4-4-4-4-4-4-4-

			truct a food chain using the following organisms:
	(b)	Cons	The state of the s
		Shee	p, Lion, Marze plant and be
		21135000	
		200	e four major parts of the human alimentary canal.
7.	(a)		e four major par—
		(i)	***************************************
		(ii)	
		(iii)	
		(iv)	
		1000000	

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		my three adaptations of ileum for the absorption of food in the alimentary canal-
	(i)	
	(ii)	
	(111)	
8.	(a) Mention	four basic principles of waste disposal.
	(i)	
	(ii)	
	(iii)	
	(iv)	
	(b) State three	effects of poor waste disposal to the community.
	(i)	
	100000	
	(ii)	***************************************
	(5000)	
	*******	***************************************
		Section C (20 Marks)
		Oction C (av marks)
		Answer one (1) question from this section.
).	Explain three sy hypertension in	imptoms of hypertension and describe two measures that may help to prevent
	hypericusion in	THIS OF THE
10.	Explain the caus	e, two symptoms, transmissions and prevention measures of cholera.
		The angular of thoreta.
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