

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

- 1. 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	
QUESTION NUMBER	SCORE	EXAMINERS' INITIALS
1		
2		
3		
4		
5	Carrier Contract	
6		
7		
8		
9	The state of the s	
10		
TOTAL		

Candidate's Examination Number SECTION A (30 Marks)

Answer all questions in this section.

	Write	e its l	etter in the bo	x prov	ided.	rectai	iswer among t	ue Rive	n alternatives and
	(i)	CI	nolera is a dis	case tr	ansmitted by ar	organ	usm called		
		A	Flea	В		C	Mosquito	D	Bacteria.
(4	(ii)	Zo	ology is defin	ed as	the study of				
		A	Animals	В	Fungi	C	Plants	D	Cells.
(iii)	Th	e root-like str led	ucture	of a Moss plan	it whic	h provide and	horage	to the ground is
		A	capsule	В	spores	C	seta	D	rhizoids.
6	iv)	Ap	lace where o	rganis	ms are found is	know	n as		
		A		В	community			D	niche.
(1)	As	ecretion cont.	aining	enzymes which	h dige:	at both protein	ns and a	carbohydrates is
		kno	wn as					11001111100000	
		A	Bile			В	Mucus		
		C	Pancreatic j	uice		D	Saliva.		
(v	i).	Whi	ch of the foll	owing	cell structure	differe	ntiate an anin	nal cell	from plant cell?
		Α	Cytoplasm			В	Cell wall		Tomas John Sells
		C	Cell membr	ane		D	Nucleus		
(vi	i)	The	valve separat	ing th	e left auricle ar	nd left	ventricle is e	alled	
		A	bicuspid val	ve		В	semilunar		
		C	tricuspid val	lve		D	septum va		
(vii	i)	Fire :	accident can	be cau	sed by the foll	owine	excent		
	\$	A	electric fault						
	1	3	burning of ca	andles					
	(3 1	burningof ch	arcoa	stove.				
	E)	smoking in a	reas s	elected as smo	king z	ones.		-
(ix)	C	Oxygen passing from the atmosphere into the blood of a mammal takes one of the following routes:							
	A			nchio	les - trachea - :	alveol			
	В	8 6	rachea - bros	chiol	es - bronchi -	alveol			7
	C	i i	rachea - brov	nchi -	bronchioles -:	alveol			
	D	Is.	ronchinler	brone	hi teach	alveol	1.		
	D	O	ronemores -	DIONE	hi - trachea - :	atveol	E.		

		Candidate's Examination Num	Der					
	(x)	The correct hierarchical order of grouping organisms is A Kingdom, Phylum, Class, Order, Family, Genus, Spec B Kingdom, Phylum, Order, Class, Family, Genus, Spec C Species, Genus, Family, Order, Class, Phylum, Kingd D Kingdom, Phylum, Class, Family, Order, Species, Genus, Genus, Family, Order, Species, Genus, Ge	om. nus.					
	LIGHT CONTROL	h of the following statements, write TRUE if a statement is o	correct or FALSE if a					
2.	In eac staten (i)	nent is not correct. Regiberi, conorrhea and syphilis are diseases caused by bac	eteria					
	(ii)	Dipod capillaries are narrow and their walls are one cell thick						
		Rickets is prevented by increasing the amount of vitamin D in a diet						
	(iii)	the bear wagen while aerobic respiration do not use oxygen						
	(iv)	the second server have large alveoli						
	(v)	Scientist uses beam balance to measure volume						
	(vi)	Scientist uses beam balance to measure volume						
	(vii)	A person with blood group AB is called universal donor						
	(viii)	Heartburn is a disorder of digestive system						
	(ix)	Photosynthesis uses water and release oxygen						
	(x)	It is useless to keep a First Aid Kit at schools						
3.	Mate	h the phrase in List A with responses in List B by with the phrase in List B below the item number of List A in a table part of List A	List B					
	120	The bighost capt of classification.	A Kingdom					
	(i)	c which can interpreed to produce	B Phylum					
	(ii)	the offening	C Class D Species					
	(iii)	of Vinadom Plantae in which lefti plant	D Species E Family					
	10000	1-1-000	F Genus					
	(iv)	A group of genera with similar characteristics.	G Order					
	(v)	A sub division of a highest group of classification. A sub group of Kingdom Fungi in which bread mold	H Kingdom Monera					
	(vi)		1 Division Pteridophyta					
	(vii)	t James	J Division Bryophyta K Kingdom Plantae L Phylum Zygomycota					
	(viii)	A sub group of Kingdom Fungi in which yeast belongs. The highest group in which Bacteria belongs.	M Phylum Basidiomyco N Phylum Ascomycota					
	(ix)	of Kingdom Plantae in Which mosses	O Kingdom Protoctista					

belongs.

ANSWERS | List A (i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix) (x) | | List B |

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.

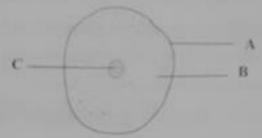


Figure 1

- (a) Name the parts labeled with letter A, B and C.

 B

 C
- (b) Give the function of the part labeled by letter €
- (c) Give three differences between animal cell and plant cell.

	Animal cell	Plant cell
(i)		

	***************************************	***************************************
(ii)		
	***************************************	***************************************
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
111)		

	***************************************	***************************************

			Candidate's Examination Number
16	Defin	ne the foll	lowing terms;
37		(i)	Laboratory
		(ii)	Biology
		(iii)	Botany
	(b)	State	the uses of each of the following laboratory apparati:
	1555	(i)	Microscope
		(ii)	Thermometer
		(iii)	Test tube
		(iv)	Test tube holder
6.	(a)	What	is the meaning of the following terms: Food chain.
			Pood Chain.
		(ii)	Trophic levels.

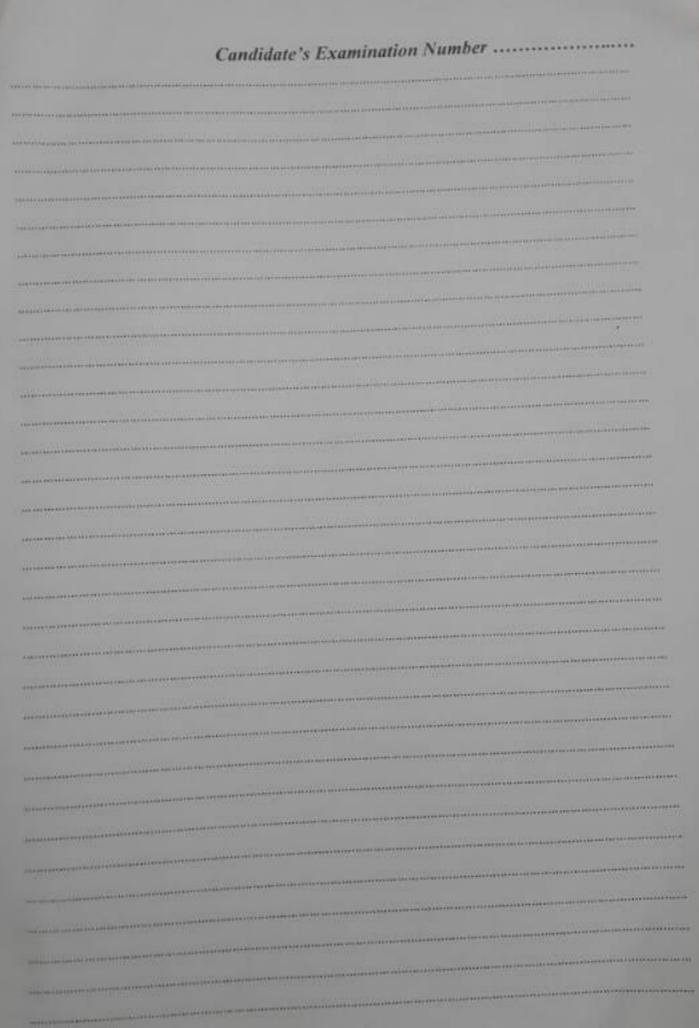
	(b)	Cons	truct a food chain using the following organisms:
		Shee	p, Lion, Maize plant and Bacteria.
		2400000	
7	(a)	Nam	e four major parts of the human alimentary canal.
	(000)	(i)	200000000000000000000000000000000000000
		(ii)	
		(iii)	
		(iv)	

		Canadade's Examination (various)	-55
	(b)	Give any three adaptations of ileum for the absorption of food in the alimentary cana	ıl-
		(i)	

		(ii)	
	6	TD)	
	7	iii)	

8.	(a) M (i)	fention four basic principles of waste disposal.	
	(ii)		
	(iii)		
	(iv)		****
	(b) State (i)	e three effects of poor waste disposal to the community.	
	337		
	(ii)		
	(11)		
	(iii)		***
	(111)	***************************************	
		Section C (20 Marks)	
		Answer one (1) question from this section.	
9.	Explain the	aree symptoms of hypertension and describe two measures that may help to pre- tion in human being.	event
10.	Explain the	e cause, two symptoms, transmissions and prevention measures of cholera.	
	- III III		
	-1		
		Page 6 of 8	***********

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Candidate's Examination Number