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

033

#### **BIOLOGY**

Time 2:30 Hours

Wednesday, 14th November 2018 a.m.

#### Instructions

- 1. This paper consists of sections A, B and C with a total of eleven (11) questions.
- 2. Answer all questions in section A and B and one (1) question from section C.
- 3. All writing must be in blue or black ink except drawing which must be in pencil.
- 4. Calculators, cellular phones and any unauthorized materials are **not** allowed in the examination room.
- 5. Write your Examination Number at the top right corner of every page.

QUESTION NUMBER	SCORE	EXAMINER'S INITIALS
QUESTION NUMBER	SCORE	EAAMINER SINITIALS
2	man white the latest a	
3		
4		
5		
6	Parast Bull	
7		
8		
9	ALL PARCE LINE AND	
10	I II	
11		and the second second second second
TOTAL		
ENTERER'S INITIALS		
CAND CAND IN THAT I G		
CHECKER'S INITIALS		





### Candidate's Examination Number ....

## **SECTION A (30 Marks)**

Answer all questions in this section.

1.	For ea	ach o	f the items (i) - (x), choos s and write its letter in the	ose the correct ne box provide	t answer from among the given ed.			
	(i)		ich of the following mir		quired by plants in large quantity?			
				В	Zinc			
		C	Copper	D	Iron.			
	(ii)	from scurvy?						
		A	Groundnuts	D				
		C	Cassava	B D	Orange Fish.			
	(iii)	Δt	erm which do n					
	(111)	1	eriii willen describes org	anisms with s	imilar nutritional habits is known as			
		11	Community	В	trophic level			
		C	food chain	D	food web.			
	(iv)	The	e movement of bulk fluid	materials alo	ong a vessel or tube is termed as:			
		A	Transport	В	Osmosis			
		C	Mass flow	D	Diffusion.			
	(11)							
	(v)	WI	substance which catches fire easily?					
		A	Corrosive	В	Flammable			
		C	Harmful	D	Oxidant.			
	(vi)	Wh	ich of the following type	e of waste can	not be recycled?			
		A	paper	В	metal scraps			
		C	used syringe	D	plastics.			
	(vii)	A r	espiratory surface of fish	is called				
	(111)		Gills		S. minnella			
		C	Fins	B D	Spiracle			
		C	FILIS	D	Operculum.			
	(viii)	A s	tructure which enclose a		inner parts of a cell is called			
		A	cell wall	В	chloroplast			
		C	cell membrane	D	nucleus.			
	(ix)	A c	ommunicable disease whiod of time at a given loc	nich affects a l	large number of people in a short			
		A	pandemic	В	endemic			
		C	sporadic	D	epidemic.			

Page 2 of 12

	Canadate's Examination Number
(x)	Why bats and birds are <b>not</b> placed in the same species while they are closely related organisms?
	A They cannot interbreed to produce a fertile offspring
	B They can interbreed to produce a fertile offspring
	C One lay egg and another can give birth
	D One possesses feathers and another short beak.
Fore	each of the items (i) $-(x)$ , write <b>True</b> if a statement is correct or <b>False</b> if a
state	ment is not correct in a space provided.
(i)	People living with HIV/AIDS should be isolated from the
	community
(ii)	A microscope is an instrument that is used to magnify large
	objects
(iii)	Kingdom is the highest rank of classification.
(iv)	In ecosystem herbivores feeds on carnivores.
(v)	Inhaled air contains more oxygen than exhaled air
(vi)	Liverwort is a representative member of Kingdom Fungi
vii)	Ventricles have thicker walls than the auricles
viii)	Colon is a special site for absorption of digested food materials
(ix)	Unicellular organisms are made up of one cell only
(x)	Poor waste disposal may cause accidents at home and school

# Candidate's Examination Number .....

Match the phrase in List A with responses in List B by writing the letter of the correct response in List B below the corresponding phrase number of List A in a table 3. provided.

	Y fort A		List B
(1)	List A  The process by which solvent molecules move from	A	Diffusion.
(i)	a region of high solvent concentration to a region of	В	Root hair
	low solvent concentration through a selectively	C	Plasmolysis
	permeable membrane.	D	Xylem
(ii)	The process by which particles move from a region	E	Phloem
	of high concentration to a region of low	F	Haemolysis
	concentration.	G	Capillarity
iii)	An extended epidermal cell in plants which absorb water and mineral salts from the soil.		
v)	The tissue which transport manufactured food from	11	Oamosis
	the leaves to the other plant parts.	Н	Osmosis
v)	A process by which red blood cell burst due to water		
	gain by osmosis when placed in hypotonic solution.		

#### Answer

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

- Complete each of the following statements by writing the correct answer in the space 4. provided.
  - A temporary treatment carried out to a sick person before arriving to hospital is (i)
  - Turning waste into useful products is termed as..... (ii)
  - A place where solid waste is buried in the ground is called..... (iii)

C \	An in	
(iv)	called	avoluntary ejection of substances from the stomach through the mouth is
(v)	The co	ombustion of waste at high temperature is known as
		SECTION B (50 Marks)
		Answer all questions in this section.
(a)	State	the meaning of the following terms as used in Biology.
	(i)	A cell
	(::)	Cristana
	(ii)	System
	(iii)	Organ
	(111)	Organi
		······································

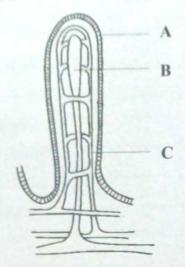
Candidate's Examination Number .....

# Candidate's Examination Number.

(b)	Give t	two examples of each of  Producers	the following group of org	anism in trophic level
	(11)			
	(11)			
	(11)			
	(;;)	Abiotic component		
				***************************************
	(i)	Biotic component	and the study of Balance	of nature.
(a)	Defin	e the following terms us	sed in the study of Balance	-

(ii)

7. Study the structure of a villus shown below and then answer the questions that follow:



(a)	In which part of the alimentary canal is villus found?
(b)	Name the parts labeled with letter A, B and C
	A
	В
	C

(c)	State th	ree adaptations of the villus for the absorption of food in the alimentary
	canal.	
	(i)	
	(ii)	
	(iii)	

8. If you put a piece of bread in a wet cupboard after a few days the bread will be covered with organisms called Fungi.

(a)	Give the common name of these fungi which grow on bread.
(b)	Outline three Phyla of the Kingdom Fungi.
	(i);
	(ii)
	(iii)

# Candidate's Examination Number .....

	(c)	Outline five advantages of the Kingdom Fungi.
		(i)
		(:)\
		(ii)
		(iii)
		(iv)
		······································
		(v)
).	(a)	Define the following terms:
		(i) Aerobic respiration.
		(ii) Anaerobic respiration.
	(b)	Mention three products of anaerobic respiration in yeast cell.
		(i)
		(ii)
		(iii)
	(0)	Weita a balanced agestion d
	(c)	Write a balanced equation that summarizes the process of aerobic respiration.

## Candidate's Examination Number ......

### SECTION C (20 Marks)

Answer one (1) question from this section.

Explain the importance of studying Biology. Give six points.
Gonorrhoea is a bacterial disease caused by Neisseria gonorrhea. Elaborate
(a) its transmission
(b) six symptoms
(c) six preventive measures
(d) its treatment.
Page 9 of 12

Candidate's Examination Number
••••••
•••••••••••••••••••••••••••••••••••••••
***************************************
***************************************
***************************************
***************************************
***************************************
***************************************
P 10 - 0

Page 10 of 12

CC-18/FTNA

Candidate's Examination Number
***************************************
***************************************
***************************************
***************************************
***************************************
***************************************
***************************************
***************************************
***************************************
***************************************
***************************************
***************************************
***************************************
•
***************************************
***************************************

Cambidate's Examination Number
Camanane's Essentinoses