Candidate's Examination No.....

THE UNITED REPUBLIC OF TANZANIA MINISTRY OF EDUCATION AND VOCATIONAL TRAINING FORM TWO SECONDARY EDUCATION EXAMINATION, 2012

0033

BIOLOGY

TIME: 21/2 HOURS

INSTRUCTIONS

- 1. This paper consists of sections A, B and C.
- 2. Answer **ALL** questions from sections A and B and only **ONE** question from section C.
- 3. **ALL** answers must be written in the spaces provided.
- 4. Write your examination number at the top right corner of every page.
- 5. **ALL** writing must be in blue or black ink **EXCEPT** diagrams which must be in pencil.
- 6. Cellphones are not allowed in the examination room.

QUESTION NUMBER	SCORE	INITIALS OF EXAMINER			
1					
2					
3	100000000000000000000000000000000000000				
4	Title-				
5					
6					
7					
8	1000000				
9	E9919-91				
10	11/25	A STATE OF THE STA			
TOTAL		1 1 11 1			

This paper consists of 8 printed pages.

	Candidate's Examination No
(vii)	The transport of substances against the concentration gradient in a cell by using energy is called: A. active transport B. diffusion C. osmosis D. passive transport.
(viii)	Deficiency diseases caused by prolonged lack of iron and iodine in the human diet arerespectively: A. anaemia and goiter B. anaemia and marasmus C. goiter and night blindness D. rickets and scurvy.
(ix)	Which of the following blood vessels carry oxygenated blood? A. Aorta and pulmonary artery B. Aorta and pulmonary vein C. Pulmonary artery and vena cava D. Pulmonary vein and vena cava.
(x)	Which of the following cannot be preserved by drying in the sun? A. Cassava B. Fish C. Maize D. Orange.
The f	Collowing statements are either correct or not correct. Write TRUE if tatement is correct or FALSE if the statement is not correct.
(i) (ii)	All living cells contain chloroplasts. A microscope is an instrument that is used in scientific studies to magnify very small specimens
(iii) (iv)	During aerobic respiration oxygen is given out
(v) (vi)	absorption.
(vii) (viii)	on chemical containers is by an incineration
(ix) (x)	on chemical containers

2.

Find more free educational resources at:

Candidate's Examination No.....

3. Match the item in List A with the correct item in List B by writing its letter below the number of the corresponding item in List A in the table provided.

	the number of the corresponding	A. Aerobic respiration
		B. Amoeba
(i)	A communicable disease that affects of large number of people in a short period of large number of people in a short period of	
	time at a given locality	C. Anaerobic respiration
(;;)	A condition that interferes with	D. Botany
	Free of control of the board	E. Cilia
(iii)	A disease that occurs in a given area	F. Disease
	constantly	G. Endemic
(iv)	Is a way of acquiring or inducing resistance to an infection	
	It leads to the formation of ethanol and	H. Epidemic
(v)	It leads to the formation of carbon dioxide in plants	I. Flagella
(:)	It results from lack of vitamin C	J. Goiter
(vi)	Single celled organism	K. Immunity
(V11)	Structures for movement in paramecium	L. Mushroom
	The breakdown of glucose in the presence	M. Scurvy
(ix)	of oxygen	
(20)	The study of animals.	N. Vaccination
(x)	The study of arminate.	O. Zoology

ANSWERS

							1		/· \	11
LIST A	(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)
LIST B	H	F	ti	N	A	M	Ī	E	C	0

SECTION B (50 MARKS)

4. (a)	Men	ntion the major components of blood.
, ,	(i)	
	(ii)	
	(iii)	
	(iv)	

4

	Candia	
42.3	Cunaidate's I	Examination No
(b)	Explain the function of each component you	U have mentioned in nort (a)
		14.7
	(111)	
	(iv)	
. (a)	What is meant by the term "Malnutrition"?	
		· · · · · · · · · · · · · · · · · · ·
	,	
- 150		
	A 3 year old child has been brought to a dicomplaints: He is weak, cries and eats a land then. The child also has a dry skin as Furthermore his hair looks red and is very	ot and has diarrhoea now nd a protruding stomach.
	(i) Which nutritional disorder is the child	d suffering from?
	(i) Which retritioned disorder is the similar	
	(ii) What advice will you give the child's p	parents?
	(ii) What advice will you give the child's h	
The	diagram below represents a feeding relati	ionship in an ecosystem, the
arro	ws meaning "eaten by".	
		Hyena
	Lion	1
	Goat	, Zebra
	1	1
	Grass	Shrubs
	What is the feeding relationship represen	nted above?
a) W	Vital 15 the feeting	
	What does the sequence:	on Bacteria
	Grass Goat Li	
re	epresent?	

Find this and other free educational re	sources at http://maktaba.tetea.org
	Candidate's Examination No
	Candidate
	100 miles 25923
(c) Name the organisms which (i) Primary consumers	are:
(c) Name the organisms was	F 20672
(c) Name the organismers (i) Primary consumers	
(c) Name the organisms which (i) Primary consumers	
- macets	
Briting	shrubs in the pattern.
(d) What is the role of grass and	
TOS!	
	d respirations
	an gaseous exchange and respirations
7. (a) What is the difference between	en gaseous exchange and respiration? Exchange of gase from the lung. Exchange of sextygen and confinence of sextygen and confin
Coseous exchange	only while tesperation with the
to other part of	letien of oxygon and col
inholation and exte	
(b) List the features of a respirato	ory surfaces
(i)	
(ii)	
(iv)	
(c) Explain why:	
(c) Explain with of breathing incr	eases quickly during an exercise.
(i) The rate of breating men	
	t t t t t t t t t t t t t t t t t t t
	not go to normal as soon as you stop
exercising.	

The second secon	
8. (a) Define the term waste.	Elitablish a control of
	A STATE OF THE PARTY OF THE PAR
Find man for a decay	Construction of

Candidate's Examination No
(b) Mention the basic principles of waste disposal.
(i)
(ii)
(iii)
(c) Explain why root hairs become flaccid when too much chemical fertilizers are added to the moist soil around them.
SECTION C (20 MARKS)
the following guidelines:
- characteristics - can not coon by 2000
- characteristics - com not coon by exes - advantages - helps in formattain eg mik - disadvantages causes exesses
the following guidelines:
10. Write an essay on AIDS using the following of cause - cause - the four areas where the causative organism can be found in an infected - the four areas where the causative organism can be found in an infected
- the four areas where the causauve organic
transmission shewing of shevip votrument
Abstrue from
Donged felorer
7