Candidate's Examination No.....

THE UNITED REPUBLIC OF TANZANIA MINISTRY OF EDUCATION AND VOCATIONAL TRAINING FORM TWO SECONDARY EDUCATION EXAMINATION, 2009

0033

BIOLOGY

TIME: 21/2 HOURS

INSTRUCTIONS

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

FOR E	XAMINER'S	USE ONLY
QUESTION NUMBER 1	SCORE	INITIALS OF EXAMINER
3 4		
5 6 7 **		
8 9		
TOTAL		

This paper consists of 10 printed pages.

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Candidate's Examination No
RV)
SECTION A (30 MARKS)
 Select the correct answer in each item and write its letter in the box provided.
(i) An object to be observed under the microscope is placed on the: A. base
B. coarse adjustment C. eye piece
D. mirror
E. stage.
(ii) All of the following are communicable diseases: A. cancer, gonorrhoea and syphilis B. cholera, gonorrhoea and syphilis C. cholera, kwashiorkor and marasmus D. cholera, marasmus and rickets E. goitre, meningitis and tuberculosis.
(iii) Which of the following is a group of animal tissues? A. Blood, cardiac muscle, liver and skin B. Blood, epithelial, muscle and nerve C. Blood, eye, muscle and skin D. Blood, heart, kidney, and spermatozoan E. Blood, kidney, muscle, and skin.
(iv) Which of the following is used to control all activities in a plant cell? A. Cell wall B. Cell vacuole C. Chloroplast D. Cytoplasm E. Nucleus.
 (v) A person whose diet lacks Iodine is likely to develop a nutritional disorder known as: A. goitre B. night blindness C. pellagra D. rickets E. scurvy.
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(vi)	A group of interdependent organisms living in an environment is called: A. biosphere B. community C. ecology D. ecosystem E. population.
(vii)	The essential pigment which transports oxygen in blood stream is: A. erythrocyte B. haemoglobin C. leucocyte D. lymphocyte E. thrombocyte.
(viii)	The following are the products of respiration except: A. alcohol, carbon dioxide and energy B. alcohol, energy and lactic acid C. carbon dioxide, energy and lactic acid D. carbon dioxide, energy and water E. glucose, oxygen and water.
(ix)	The following waste can be recycled except : A. aluminium cans B. contaminated syringes C. glass jars and bottles D. papers and cardboards E. plastic bags.
(x)	Which of the following is the chemical substance that catch fire easily? A. Corrosive B. Flammable C. Harmful D. Irritant E. Oxidant.
	the following statements are either correct or not correct. Write the following statement is correct or FALSE if the statement is not correct in the space provided.
(i)	A hand lens is used to make objects look smaller than their normal sizes.
	3

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(ii)	Blood groups are classified on the basis of the presence or
	absence of plasma antigens.

(iii) Displaying good manners is behaving in a way that is accepted by the majority.

(iv) First aid is given by a qualified doctor before a victim is sent to the hospital.

(v) Inhaled air contains less amount of water vapour than exhaled air.

(vi) Oxygen is not important to plants.

(vii) People living with HIV/AIDS should be isolated to avoid spreading of the disease to others.

(viii) Salting and smoking are methods of food preservation.

(ix) The largest group in the classification system is a phylum.

(x) Transpiration provides cooling to the plants.

3. Match the phrase or term in List A with that in List B by writing its letter against the number of item in List A in the table provided below.

	LIST A		LIST B
(i)	A protein deficiency disease found in	A.	active immunity
(-)	children	B.	passive immunity
(ii)	An element needed for manufacture of	C.	magnesium
()	chlorophyll in plants	D.	phosphorus
(iii)	An organism with both plant and	E.	mucor
()	animal characteristics	F.	yeast
(iv)	Fungi which cause food spoilage	G.	kwashiorkor
(v)	Immunity that develops as a result of	H.	marasmus
()	the body making antibodies against	I.	lungs
	pathogens	J.	spiracles
(vi)	Is an endemic disease	K.	amoeba
(vii)	The process whereby cells absorb	L.	euglena
(VII)	water and swell	M.	alveoli
	They increase surface area for	N.	villi
viii)	absorption of digested food substances	0.	phloem
()	Transport products of photosynthesis	P.	xylem
(ix)	from the leaves	Q.	cholera
/ 1	Structures for gaseous exchange in	R.	malaria
(x)		S.	flaccidity
	birds	T.	turgidity

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	(i) (ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(1X) (X)
LIST A	(1) (11)	(111)	1()	1				
LIST B					_			

(iii) Construct a simple food web involving the following organisms: grasshopper, frog, grass, hawk and snake. (iii) Which group of organisms are not shown on the food web diagram you have drawn? What is their importance to the food web? 7. (a) What is a lymphatic system? (b) Give the importance of the lymphatic system in a mammal. (i)
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Advantages:
(i)
7

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		Candidate's Examination No
	(ii)	
	Disadvantages:	
	(i)	
	(11)	
8. (a)	***************************************	
(-)	(i) What is gaseous exchang	ge?
	(ii) Why is it healthier to bre	eath through the nose than through
	the mouth?	ath through the hose than through
(b) (Outline factors affecting the rate	e of breathing in mammals.
	(ii)	
(c) Giv	ve differences between aerobic	and anaerobic respiration.
(*)	Aerobic respiration	Anaerobic respiration
(i)		
(ii)		
(iii)		

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	SECTION C (20 MARKS)	1
	Choose ONE question	
	9. Write an essay on: Waste Disposal, under the following guidelines: - meaning of waste	100
	- types of waste according to their physical state with two examples in each type	
	ste diamagal	
	- meaning of waste disposal - proper ways of disposing waste with two examples in each way	
	- importance of proper waste disposal.	
	OR	
•	10. Write an essay on: Health, using the following guidelines:	
	meaning of health, infection and persons	
	- factors which contribute to good health	
	- factors which contribute to good heard? - ways of maintaining proper personal hygiene during puberty.	
	- way 6 6	
9		
	9	
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