THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL PRIMARY SCHOOL LEAVING EXAMINATION

05E

SCIENCE

Time: 1:30 Hours Wednesday, 10th September 2014 a.m

Instructions

- 1. This paper consists of fifty (50) questions.
- 2. Answer all the questions.
- 3. Read all the given instructions in the special answer sheet (OMR) and fill in all the required information.
- 4. Write your **Examination Number** and then **shade the digits** of the number in the respective place in your answer sheet.
- 5. **Shade** the letter of the correct answer for each question in the answer sheet provided, for example, if the correct answer is A shade as follows:

EAR CB3 CC3 CD3 CE3

- 6. If you have to change your answer, you must rub out the shading very neatly before shading the new one. Use a clean rubber.
- Use HB pencil only.
- 8. Cellular phones are **not allowed** in the examination room.

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Cl	noos eet p	e the correct answer a provided.	and s	hade its let	ter beside e	ach question in	the answer	
1.	A	The state of the s		es can be sp rrhoea	read by hous C	eflies and cockro Whooping cou	aches?	
	D	Malnutrition E	Typ	ohoid.				
2.	Which of the following is not found in the blood system?							
	A	Bronchiole B V	alve	C Aur	icle D C	apillary E A	rtery.	
3.	Which of the following should be considered before attending a person suffering from AIDS?							
		Wear clean clothes			rself with soa	ip C Wes	ar gloves	
	D	Pray	E	Allow him	/her to rest.			
4.	Which of the following is a characteristic of clean and safe water?							
	A	THE PROPERTY AND ADDRESS OF THE PARTY OF THE PARTY.						
	В							
	C	Filtered and stored in			Ca. 4			
	D	The record of contract and answer to			ntainer			
	E	Without a lot of soda	ash.					
5.	WI	nich of the following d	iseas	es does not h				
	A	Tuberculosis	В	Tetanus	C	Measles		
	D	Whooping cough	E	Trachom	a.			
6.	Th	e gas used by plants to	man	ufacture pro	teins is			
	A	carbon dioxide	В	hydroger	C	oxygen		
	D	nitrogen	E	natural g	as.			
7.		e amount of water le		y plants in	crease due	to the presence	of which	
		ndition in the environm		_				
	A	Heat and water vapor	ır	В		our and light		
	C E	Wind and sun rays Water vapour and wi	nd.	D	Clouds an	d wind		
	~	Water Apout and Wa						
8.	Pec	ple are likely to cause	soil					
	A	Cut down trees		В 2	Add manure	to the soils		
	C	Plant grass		D	Make terrace	s on sloppy grour	nd	
	E	Plant trees.						
9.	Agriculture, livestock keeping and mining are activities done by human beings and all depend on							
	A	rivers	В	springs		C land		
	D	irrigation	E	wind.				

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10.	A chameleon usually changes its colour in order to A search for food B breath D observe enemies E protect itself.	С	reproduce
11.	How many stages are there in the growth of a cockroach? A Two B Three C Four D Five	Е	Six.
12.	Which of the following does not have vertebral column? A Spider B Bat C Cat D Man	Е	Chicken.
13.	One of the functions of the muscles in the body is to A prevent bleeding B cause various movem C produce red blood cells D hold the teeth in place E transport blood in the body.	ents	CHICKOII.
14.	Human bones are joined in order to A prevent breakage B make them of the sam C enable them to bend easily D make the shape of the E enable them to straighten.		
15.	Which of the following bend when passing from one medium to A Rainbow B Parallel lines C Light r D Lens focus E A ray and lens focus.		her?
16.	In the light spectrum, the colour which bends earlier than others: A red B yellow C indigo D blue	is E	violet.
17.	Study Figure 1 which shows the internal part of a bean seed.		
	Figure 1		2.04030
	Which part is responsible for protecting the seed from harmful is in temperature? A 2 B 3 C 5 D 4	2	s or changes 1.
18.	The sky looks blue because A air and water are bluish B red colour is dispersed more than blue colour C vision power decreases D blue colour is dispersed more than other colours E during sunset, the sun appears yellowish.		

19.	Which of the following items does not use magnet? A Loud speaker B Telephone C Radio D Mobile phone E Iron.							
20.	The unit of work is A Kilogram B Newton C Tonne D Joule E Gram.							
21.	In the normal procedure, the first stage to be followed when conducting a scientific experiment is A to start an experiment B data collection C problem identification D data analysis E interpretation of results.							
22.	The third stage in a scientific experiment is A data analysis B interpretation of results C preparation and starting the experiment E problem identification.							
23.	Bahati put a red litmus paper in an unknown chemical compound. The colour of the litmus paper changed to blue. This show that the chemical compound had A acid B ash C water D fat E spirit.							
24.	The results of an experiment may be in the following two forms. A True or false B Analysed and not analysed C With questions and without questions D Preliminary results and medium results E Preliminary results and final results.							
25.	What will happen if NORTH and NORTH magnetic poles approach each other? A They will strongly attract each other B They will attract each other towards one direction C They will repel D Nothing will happen E They will break.							
26.	PQ is a ruler whose length is half a metre. A load of 20 gm is placed at P a distance of 0.1 m from the fulcrum. If a load is placed at Q a distance of 0.4 m from the fulcrum, what will be the weight of M when the rule is balancing?							
	A 4 g B 10 g C 5 g D 2.5 g E 25 g.							
27.	The concept of reflection of light is manifested in one of the following things: A Microscope B Television C Watch D Bulb E Spectacles.							

28. Study Figure 2 which shows an electric circuit having bulbs connected in a parallel form and answer the question that follows. Figure 2 What will happen when bulb 2 blows? Bulb number 3 only will remain alight B 1 and 3 will remain alight 1 only will remain alight C D 1 and 3 will blow 3 will blow. E 29. Presence of living organisms, water and air is a characteristic of which of the following planets? A Mars B Jupiter C Venus D Earth E Saturn. 30. The earth's axis is inclined at which degrees? A 60 181/2 C 321/2 D 251/2 E 231/2. 31. Which of the following revolves around the earth from west to east? A Sun В Star C Moon D Meteor E Planet. 32. A person having swollen neck gland (goitre) has a deficiency of which mineral salt? A Calcium B Iodine C Potassium D Phosphorus E Limestone. 33. Carefully observe Figure 3 and answer the question that follows: D E Figure 3 Which letter in Figure 3 represents the uterus? C B A D C ED AB. 34. One of the functions of the bones is to manufacture

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blood plasma

blood clotting cells

A blood platelets B

D red blood cells E

C white blood cells

35.	Uhuru has a problem of having broken teeth and weak legs. What type of food nutrients would you advise him to eat in order to solve the problem? A Iron minerals B Phosphorus minerals C Calcium minerals D Iodine minerals E Vitamin K.
36.	When Ahadi was asked a science question on solar eclipse, he thought for a while before giving the correct response to the teacher. Which part of the brain did he use to answer the question? A The front brain B The hind brain C The mid brain D The front and hind brain E The mid and hind brain.
37.	The function of the spinal cord in the human nervous system is to A deal with involuntary actions B deal with voluntary actions C coordinate movement of the body D maintain the shape of the body E transport impulses to the central nervous system.
38.	High tide and low tide in oceans and great lakes is caused by A revolution of the earth around the sun B rotation of the earth on its axis C moon eclipse D solar eclipse E attraction force between the earth and the moon.
39.	Under normal circumstances, rust is the result of a chemical reaction between A copper, water and oxygen B sodium, water and oxygen C calcium, water and oxygen D iron, oxygen and water E water, oxygen and potassium.
40.	Vegetables and fruits help in the formation of A red blood cells B white blood cells C blood platelets D blood plasma E bone marrow.
41.	The following methods can be used for food preservation except A baking B using honey C drying D salting E using water.
42.	The following are types of food nutrients except A mineral salts B vitamins C water D protein E carbohydrates.
43.	Which of the following foods can be preserved by deep freezing? A Fruits and vegetables B Vegetables and grain C Fish and fruit D Meat and fish

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44. The deficiency disease caused by lack of iron in the diet is kwashiorkor rickets B C anaemia beriberi. marasmus 45. Carefully observe the foods represented in Figure 4 and then answer the question that follows. Figure 4 The function of the foods shown in Figure 4 is to build up the body B give energy to the body C protect the body generate heat to the body D E build up bones. 46. A fish which is in the water seems to be at the surface of the water while it is actually deep in the water because the fish is not stationary in the water B the water is calm and clean C the depth of water is reduced by the light rays fish scales make it appear big D E light rays are refracted in the water. 47. The correct food chain is A eagle

grass

leopard

goat

B grass

eagle

leopard

goat

C leopard

eagle

grass

goat

goat

proper

goat

goat

goat

b leopard

eagle

goat

goat

goat

b leopard

eagle E eagle → leopard → goat → grass. 48. The three main parts of the circulatory system are A arteries, veins and capillaries blood, heart and lungs B C blood, blood vessels and heart D blood vessels, heart and valves heart, aorta and arteries. E 49. Man uses the following sensory organs when doing scientific investigation: Tongue, eyes, nose, skin, ears Brain, nose, eyes, sensory nerves A В Brain, nose, ears, eyes, skin C D Brain, tongue, eyes, skin, ears Eyes, skin, ears, sensory nerves. E 50. Which of the following hormones when insufficient cause defect in female reproductive system? Pituitary and insulin A B Estrogen and progesterone Thyroxine and pituitary C D Estrogen and insulin Thyroxine and estrogen. E