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.
- 7. Use **HB pencil** only.
- 8. Cellular phones are **not allowed** in the examination room.

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Ch sh	noose the correct answer and shade its letter beside each question in the answer eet provided.
1.	Which of the following diseases can be spread by houseflies and cockroaches? A Chicken pox B Diarrhoea C Whooping cough D Malnutrition E Typhoid.
2.	Which of the following is not found in the blood system? A Bronchiole B Valve C Auricle D Capillary E Artery.
3.	Which of the following should be considered before attending a person suffering from AIDS? A Wear clean clothes B Wash yourself with soap C Wear gloves D Pray E Allow him/her to rest.
4.	D Pray E Allow him/her to rest. Which of the following is a characteristic of clean and safe water? A Fetched from wells B Stored and cooled in a water pot C Filtered and stored in clean container D Boiled, filtered and stored in clean container E Without a lot of soda ash.
5.	Which of the following diseases does not have a vaccine? A Tuberculosis B Tetanus C Measles D Whooping cough E Trachoma.
6.	The gas used by plants to manufacture proteins is A carbon dioxide B hydrogen C oxygen D nitrogen E natural gas.
7.	The amount of water lost by plants increase due to the presence of which condition in the environment? A Heat and water vapour B Water vapour and light C Wind and sun rays D Clouds and wind E Water vapour and wind.
8.	People are likely to cause soil erosion if they do one of the following: A Cut down trees B Add manure to the soils C Plant grass D Make terraces on sloppy ground E Plant trees.
9.	Agriculture, livestock keeping and mining are activities done by human beings and all depend on A rivers B springs C land D irrigation E wind.

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10.	A ch A D	nameleon u search for observe en	food		ges it: B E	bre	ath	n order tself.	to		С	reproduce
11.	How A	/ many stag Two	ges are B	e there Three	in th		owth Fou		ckroa D	nch? Five	Е	Six.
12.	Whi A	ch of the fo Spider	llowi B	ng doe Bat			e ver Cat	tebral o	colum D	ın? Man	E	Chicken.
13.	Α	of the fund prevent ble produce re transport b	eeding d blo	g od cell	S		in the B D	cause	vario	us move th in pla		
14.	Hun A C E	nan bones a prevent br enable the enable the	eakag m to l	e end ea	asily	r to	B D			of the sa		_
15.	Whi A D	ich of the for Rainbow Lens focus		B 1	Parall	lel li	nes	g from focus.	one n		to anot t ray	her?
16.	In th	ne light spec red		, the co	olour C		ch be			an other	rs is E	violet.
17.	Stud	ly Figure 1 Figu		n show	s the J 2-3 4 -5	inter	rnal p	art of a	bean	seed.		
		ich part is r emperature? 2)	sible f	or pro	otect C		he seed	from D	harmfu 4		s or changes
18.	A B C	sky looks bair and war red colour vision pow blue colour during suns	ter are is disp er dec r is dis	e bluish persed creases spersec	more I mor	e tha	an otl	ner colo				

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 data analysis preparation and starting the experiment problem identification. B interpretation of results D data collection								
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 В 1 and 3 will remain alight 1 only will remain alight C D 1 and 3 will blow E 3 will blow. 29. Presence of living organisms, water and air is a characteristic of which of the following planets? A Mars В Jupiter Venus C 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 $23\frac{1}{2}$. 31. Which of the following revolves around the earth from west to east? A Sun Star C Moon D Meteor E Planet. 32. A person having swollen neck gland (goitre) has a deficiency of which mineral salt? Α Calcium B Iodine C Potassium D Phosphorus E Limestone. 33. Carefully observe Figure 3 and answer the question that follows: E Figure 3 Which letter in Figure 3 represents the uterus? Α CB D C ED A E B. 34. One of the functions of the bones is to manufacture blood platelets blood plasma A В \mathbf{C} white blood cells red blood cells E blood clotting cells

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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

44. The deficiency disease caused by lack of iron in the diet is В kwashiorkor rickets \mathbf{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 В give energy to the body C protect the body D generate heat to the body 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 \mathbf{B} the water is calm and clean \mathbf{C} the depth of water is reduced by the light rays D fish scales make it appear big E light rays are refracted in the water. 47. The correct food chain is \mathbf{B} C D eagle → leopard → goat → grass. E 48. The three main parts of the circulatory system are arteries, veins and capillaries A \mathbf{B} blood, heart and lungs C blood, blood vessels and heart D blood vessels, heart and valves E heart, aorta and arteries. 49. Man uses the following sensory organs when doing scientific investigation: Tongue, eyes, nose, skin, ears A В Brain, nose, eyes, sensory nerves \mathbf{C} Brain, nose, ears, eyes, skin Brain, tongue, eyes, skin, ears D Eyes, skin, ears, sensory nerves. E 50. Which of the following hormones when insufficient cause defect in female reproductive system? Pituitary and insulin Α Estrogen and progesterone В Thyroxine and pituitary C D Estrogen and insulin Thyroxine and estrogen. E

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