SCIENCE PLE 2015

I	CANDIDATE'S INFORMATION !			
į	Index number :			
į	Name :			
i	Signature :			
i	School name :			
ı	District name:			
l.	SECTION A: 40 MARKS Which type of immunity do babies get from their mothers?			
2.	Name the blood vessel which takes blood from the heart to the lungs.			
3.	Name the energy resource obtained from animal dung and urine.			
4.	Mention any one factor that affects the rate of evaporation.			
5.	State the difference in units used to measure weight and mass.			
	The diagram below shows a simple machine. Use it to answer questions 6 and 7.			
	6. To which class of levers does the machine above belong?			
7.	Use an arrow with letter P to show the fulcrum on the diagram.			
8.	Give any one way in which litter in important in a poultry house.			
9.	Apart from the bright coloured petals, state one other thing that attracts insects to flowers.			

10.	State any one way in which drought affects food production in the community.
II.	State the difference between the feeding of a tapeworm and a hookworm.
12.	Why is water obtained by distillation method not good for drinking?
13.	State the sense organ for feeding in the human body.
۱۴.	Which property of magnets enables a magnetic compass to work?
15.	State any one way which the spread of scabies can be prevented.
16.	Why do some plants shed their leaves during dry season?
17.	Mention one permanent method of birth control in males.
18.	Why does a fish die soon after it has been removed from water?
19.	Give the use of a drenching gun to a cattle farmer.
20.	Give one reason why pregnant women are advised to feed on food rich in proteins.
	The diagram below shows parts of a joint. Study and use it to answer questions 21 and 22.
21.	Name the part marked with letter X.
22.	Using letter W, label the part that reduces friction in the joint, apart from the synovial fluid.

State the method of controlling soil erosion where farmers plough land across a slope.
Which element of Primary Health Care helps to prevent tooth decay?
State the role of enzymes during food digestion.
A part from cameras and microscopes, name any one other optical instrument that uses a lens.
Give one way in which mosses are similar to mushrooms in the way they reproduce.
Why is tepid sponging an important First Aid to a person with fever?
Why are sun birds able to suck nectar from the bottom of flowers?
Give an example of mollusk which is a vector to humans.
Name the human body system which eliminates wastes.
Give any one way in which a VIP latrine is different from an ordinary pit latrine.
Name the root crop which is attacked by the mosaic disease.
Give any one reason why sheep farmers carry out docking.
A part from a flat iron, give any one other appliance used at home that changes electric energy to heat energy.

36.	The diagram below shows a well-tuned musical instrument. The strings P, Q, R, S and T are of uniform thickness. Use it to answer the question that follows.
	Why does string T produce sound of the highest pitch?
37.	State the any one way in which smoking affects the human respiratory system.
38.	Give the importance of plants in a food chain.
39.	Name the fungal caused sexually transmitted disease, which is spread through poor hygiene.
40.	State one reason why farmers stake tomato plants.
41.	a. Give two examples of natural fertilizers. i
	ii
42.	The diagram shows a flowering plant. Study and use it to answer the questions that follow.
	a. To which group of flowering plants does the above plant belong?
	b. What type of root system does the plant have? soil level

d. In which one way is part W different from X in their reproductive function?					
a. Give any two condit i.	ions in which women are vu	nerable.			
ii. b. State any two ways i.	s in which family members ca	n care for vulnerable wom			
i a. Name the respirator	ry organs which are protect	ced by the rib cage.			
b. What happens to the rib cage during the following stage processes? — Breathing in					
- Breathing out c. Give the use of oxyg	gen we breathe in.				
The table below shows diseases, the vectors that spread them and the diseas causing germs. Study and complete it correctly.					
Disease	Vector	Germ			
	Houseflies				
Cholera					
Cholera Yellow fever		Virus			
	Infected cats	_ Virus Virus			

				
ii			-	
a. What kind	d of food is made by g	reen pla	nts during photo	synthesis?
b. State any	one raw material us	ed by g	reen plants for p	hotosynthesis.
c. How is ch	lorophyll important du	uring the	process of phot	tosynthesis?
d. Give one	reason why photosy	nthesis	does take place	at night.
The diagram	below shows firing b	 oricks in	a skin. Studv it.	and use it to answer
questions th	o		,	
MIMIL			me the source o ng the bricks	ofheat energy used in
	grass		-J -: 2: 13:13	
	bricks covered with mud	b. Gi	ve any one reas	on why the bricks ar
	source of heat	co	vered with mud	before firing starts.
400				
	he importance of the	grass p	ut on top of the	kiln during firing?
c. What is t				
				
d. State any		using th	e above method	of firing bricks to the
		`using th	ne above method	of firing bricks to the
d. State any environme	ent.			
d. State any environme	ent. How shows parts of c		eye in A and the	
d. State any environme	ent. Flow shows parts of a	a human	eye in A and the B	
d. State any environme	ent. Blow shows parts of a A Iris	a human Sh	eye in A and the B utter	
d. State any environme	ent. Flow shows parts of a	a human Sh	eye in A and the B utter	

	which performs a similar function.
	a. Iris
	b. Pupil
	c. Eye lid
	d. Retina
50.	a. Which communicable disease shows signs and symptoms similar to that of
	tuberculosis?
	b. Name the one cattle product through which tuberculosis can spread to human beings.
	c. When is the vaccine against tuberculosis administered in babies?
	d. Apart from immunization, give one other way in which the spread of tuberculosis can be controlled in humans.
51.	a. Give any two ways in which alcohol is used in hospitals.
	ii
	b. State any two effects of alcoholism to an individual. i
	ii
52.	a. Apart from the respiratory and body wastes, name any other two materials carried in blood. i
	ii
	b. Name the component of blood which transport oxygen in the human body.
	c. Which disease causing germ attacks the white blood cells in humans?

For each of the parts of the human eye, write the part of the lens camera from $\ensuremath{\mathsf{B}}$

53.	The diagram below shows a weather instrument. Use it to answer the questions						
	that '	Funnel Ground Metal container Collecting jar					
	a. Name the weather instruction shown in the diagram above.						
	b.	What is the use of the instrument above at weather station?					
	c.	Give reason why people are advised to:					
		- Put the instrument in an open ground when using it.					
		- Raise the instrument 30cm above the ground when using it.					
54.	54. a. To which class of vertebrates do toads belong?						
	b. Give one way in which the breathing of a toad is different from that of a tadpo						
	c. St	ate any two ways in which thee jelly round the egg oftoads is important.					
55.	a. Apart from ticks, name any one other cattle pest.						
	—— b. St	b. State any two diseases spread by ticks to cattle.					
	c. Giv	ve any one way in which the tick borne diseases can be controlled.					