

REBECO ACADEMIC CONSULTANCY

THE NATIONAL SCIENCE CHALLENGE 2024 PRIMARY LEVEL PAPER 1

Time allowed: 2hours 15 minutes

CANDIDATE'S	NAME			
SCHOOL:				
DISTRICT				
	R	andom No.	Personal N	0.

INSTRUCTIONS TO CANDIDATES AND SUPERVISORS

Do not turn this page until you have been instructed to do so.

Read the following instructions carefully.

- This paper has two Sections: A and B. Section A, has 40 questions and section B has 15 questions.
- 2. Answer **all** questions. **All** answers to both Section **A** and **B** MUST be written in the spaces provided.
- 3. **ALL** answers **must** be written using a blue or **black** ballpoint pen or ink. Any work written in pencil will **not** be marked.
- 4. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to **loss of marks**.
- Do not fill anything in the table indicated;"For examiners' use only" and boxes inside the question paper.

FOR E	XAMINEI ONLY	RS USE
QN. NO.	MARK	EXR'S NO
1-10		
11-20		
21-30		
31–40		
41–43		
44–46		
47–49		
50–52		
53–55		
TOTAL		

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SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1.	Name the gas that bubbles out when a soda bottle is opened.
2.	How do legumes help to improve on fertility of the soil.
3.	Why is a gecko able to swiftly move upside down on a ceiling?
Belo	ow are components of blood. Use them to answer questions 4 and 5.
4.	In terms of function, compare blood component A and B .
5.	Name the living organism that moves by help of a pseudopodia
6.	HIV /AIDS doesn't kill but what causes death in an AIDS patient?
7.	A piece of cloth washed at night and hanged on a wire will dry. Why?
8.	Give the use of a stretcher to a first aider.

9.	Give one reason why distilled water doesn't conduct electricity.
10.	Mention any one disorder of the female reproductive organ.
11.	State any one way breast feeding mothers can increase on milk in their breasts?
The	diagram below is of a part of the digestive system. Use it to
unsv	ver questions that follow.
12.	Identify part marked X.
13.	How is the substance produced in R useful in digestion?
14.	State any one advantage of leaving the land to rest for some time in Agriculture?

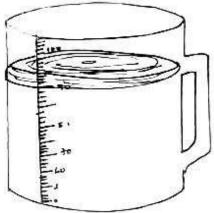
15.	State one way a dustbin can promote sanitation in a school.
16.	How do ventilators help to promote freshness in a living house?
The and	diagram below shows a circuit. Study it and answer questions 17 18.
17.	What will happen to the device X when part K is closed?
18.	Give a reason for your answer in question 17 above.
19.	State any one way of increasing the pitch of a long drum.
20.	How does heat travel through space?
21.	Why are big boats able to float on water?
22.	How can firewood be conserved in our home?
23.	Why do people remove the remaining food particles from their teeth every after a meal?

24.	In which way is friction useful to a butcher?
25.	In the space below, draw a diagram to show that the strongest forces of a magnet are found at the poles.
26.	How do plants help to reduce carbon dioxide in our environment?
27.	State the energy change that occurs at a hydro – power station.
28.	Name any one plant fibre used to make clothes.
29.	Give the role of the teeth during digestion.
30.	Which part of a fish helps it to remain buoyant in water.
31.	Give any one use of melting in our daily life.
32.	State any one way of removing dirt from clothes when cleaning.
33.	Give any one advantage of rearing hybrids over pure exotic breed of cattle.

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A P.5 girl put tea in a calibrated cup and she added sugar. After stirring, she observed that sugar had disappeared and the level of tea had risen. Study the illustration below and use it to answer question 33 and 34.





	E.
34.	State the reason why sugar disappeared in the tea.
35.	Give a reason why the level of tea rose when sugar was added
36.	Give one practice that helps a farmer to monitor his animals on a farm.
37.	Outline one way of controlling the breeding of mosquitoes in a tank filled with water at home.
38.	Give one way of allowing oxygenated blood to flow towards the brain in case of fainting.
39.	Name any one special needs group of people in our communities.
40.	Give a reason why breast milk is a complete diet.

SECTION B - (60 MARKS)

i) maintaining		in each of the following;
	pests and diseases	
c) State any	one principle followed in	a crop rotation cycle.
	_	P.5 class during a science less
	nown Study it and ans	wer questions that follows
В	efore heating (A)	After heating (B)
	Cold metal ball (a) Before heating at room temperature	Ring Heated metal ball (b) after heating
	Cold metal ball (a) Before heating at room temperature	Ring Heated metal ball
	Cold metal ball (a) Before heating at room temperature	Ring Heated metal ball (b) after heating

	(d) State what the class can do for the metallic ball to go through the ring again
43.	(a) Name one disease that involves the passing out of watery stool with blood stains
	(b) State any one danger of having untreated diahorrea for a long time?
	(c) How can the above danger be managed at home?
	(d) If the danger in (b) isn't well managed, state what can happen to the patient in the long run.
44.	(a) In one sentence, state the meaning of silting?
	(b) State any one danger of silting in the environment (c) Give two ways in which silting can be controlled in our environment. (i)
45.	(a) Why is an earthworm not grouped under vertebrates?
	(b) State any two uses of earth worms to the soil. (i)
	(c) Name the body structure used by earthworms for breathing.
46.	(a) Give any one way the environment can be polluted.

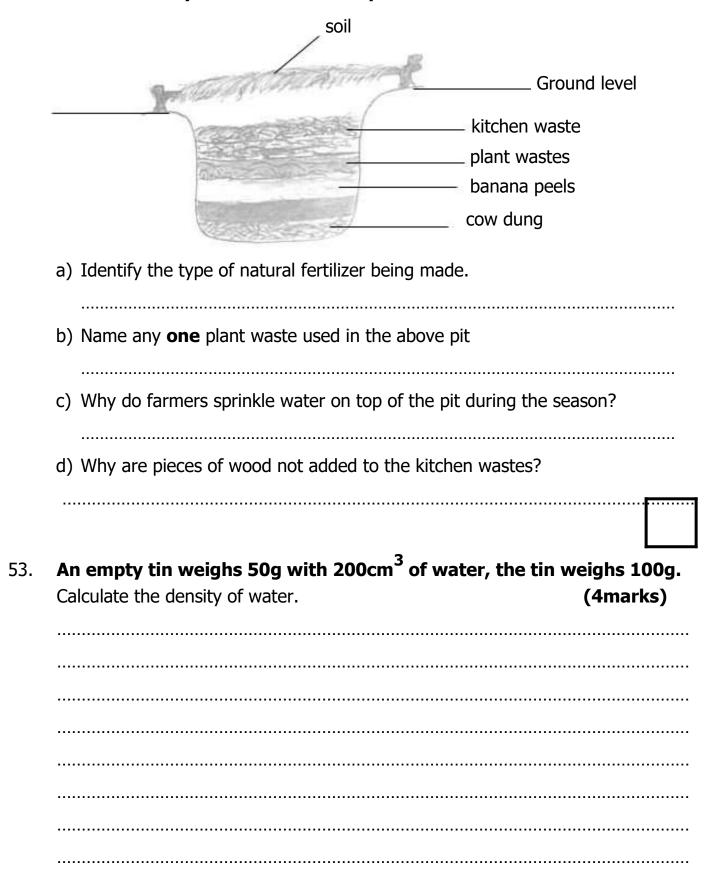
The	diagram below shows a tyre of a car. Study it and answer
the	questions that follow. Q
(a)	Name structure marked Q
(b)	Of what advantage is Part $oldsymbol{Q}$ to the tyre .
(c)	How does part Q perform its function in (b) above.
(d)	State any one danger a driver is likely to face while driving a car with tyres whose structure Q are worn out.
At N	Mr. Kirigwajjo's farm, the layers have started laying eggs with soft shell

c) Give one possible source of the food ingredients above.
The diagram below shows part of a maize grain. Study it and use it
to answer the questions below. $ \begin{matrix} & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ \end{matrix} $
a) Which system of a plant does part K develop into during germination?
b) Give the use of part marked S .
c) Why is the above said to be a fruit and not a seed?
d) By use of a line segment show the cotyledon.
The diagram below shows a man pushing a wheel barrow with logs o wood. Study it and answer questions that follow.
a) Name the class of lever shown above.

	b) Why is the above machine grouped under simple machines?
	c) How does the above machine simplify work?
	d) By use of a line segment, show the pivot.
	The diagram below shows part of a mature bean plant. Study it and answer question 51. K Seed
a)	Identify the structure marked K .
b)	Which part of a seed is used to attach it to structure K.
c)	How are the above seeds dispersed?
d)	How is the structure marked K adapted to its mode of dispersal?

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52. The diagram below shows a method of making natural fertilizer at home. Study it and answer the questions which follow.



54.	(a) Name the method used to make alcohol.	
		Give any two uses of alcohol to medical workers.
	_) >
)tate any one life skill that can safeguard you from drinking alcohol.
55.	Re-a	arrange the steps below to get the correct order of making
	wet	bricks.
	 Then knead the mixture of water and soil until it becomes sticky. 	
	 Heap the kneaded soil for at least two weeks before making wet bricks. 	
	Dig and harrow the soil.	
	Mix the soil with water to form thick mud.	
	(i)	
	(ii)	
	(iii)	
	(iv)	

****END***