

SUREKEY EXAMINATIONS BOARD SPECIAL MOCK EXAMINATION 2024

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

EMIS NO	 Pers	sonal No.

Candidate's Na	me:
Candidate's Sig	nature:
School Name:	

Read the following instruction carefully:

- Do not forget to write your name and school name anywhere on this paper.
- This paper has two sections: A and B
 Section A has 40 questions and section B
 has 15 questions. The paper has 16
 printed pages altogether.
- Answer all the questions. All answers to both sections A and B must be written in the spaces provided.
- All answers must be written using a blue or black ball point pen or ink. Any work written in pencil will not be marked.
- Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
- 6. Do not fill anything in the table indicated: "FOR EXAMINERS' USE ONLY" and boxes inside the question paper.
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FOR EXAMINERS' USE ONLY		
QN.NO.	MARKS	EXR'S NO.
1 - 10		
11 - 20	2	
21 - 30		
31 - 40		
41 - 43		
44 - 46		y 40
47 - 49	1.0	1 -1 3 -21 1
50 - 52	. 45	
53 - 55		
TOTAL		

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31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

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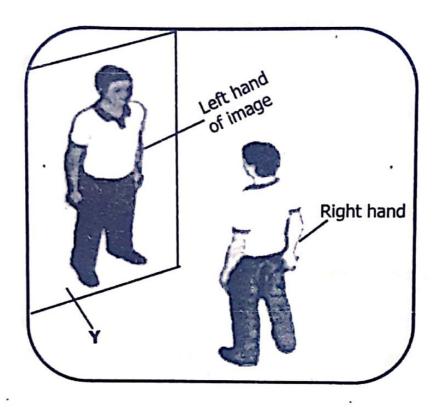


SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

Name the blood cells that produce antibodies against germs in the human body.	.8
Name any one component of the environment that helps to add water vapour to the atmosphere during the formation of nimbus clouds.	۲.
Write down any one disease that can be controlled among school children by wearing properly ironed uniforms.	.9
In which one way are villi important in the ileum during food absorption?	٠ς
State any one method that can be used to conserve heat energy at home.	'ŧ
Give any one way in which you can identify a pigeon from a whale as vertebrates.	• • •
State any one sign to show that a hen is suffering from coccidiosis.	•;
Name the material used to control excessive bleeding at the cut when giving first aid.	•

The diagram below shows a man viewing his image in a mirror. Study and use it to answer questions **9** and **10**.



9 .	Name the type of mirror marked Y.
10.	What property of light enables the man to see his image through the mirror marked Y ?
11.	Give any one way in which force of gravity is applied in our daily life.
12.	State any one way in which you can tell that the child has protein deficiency in the body.

13.	Give any one reason why farmers construct the goat sheds with a slanting floor
14.	State any one rule which must be followed when carrying out Primary Health Care (PHC).
15.	State any one factor considered when classifying the type of metamorphosis in insects.
16.	Give any one reason why pregnant women usually go for ante-natal care.
The wast	diagram below shows a symbol commonly used in the management of es in an area. Use it to answer questions 17.
17.	State the significancy of the symbol above in the management of wastes in an area.
18.	Name any one substance that is reabsorbed by the medulla from urine.
19.	Which chemical substance is released in the atmosphere during tobacco smoking by an active smoker?

20.	Give any one way in which rainfall is useful for plant growth.	
21.	Give any one way in which you can produce static electricity in the classroom during an Integrated Science lesson.	e ,
22.	State any one way in which adolescent girls care for their bodies of menstruation periods.	luring
23.	State the reason why woolen clothes should be dried without wrin	ging.
24	Give any one vector that has two main body divisions and four pajointed legs.	airs of
25	. State any one way in which the immunity of an individual can be	boosted.
	•••••	
26	 Mention any one activity carried out under child to child program school. 	nme at
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	101
2	7. In which way can a person lower the pitch of sound produced by	/ a guitar?
2	 State any one reason why the rabbit hutch should be raised about the ground. 	
	5 T	urn Over

29.	Mention any one substance that the human body uses to produce energy.
30.	Give any one way in which fungi are different from bacteria.
The	The diagram below shows a property of matter. Use it to answer questions 31 and 32 .
31.	Why does water overflow the cup as shown in the diagram above?
32.	State the property of matter shown in the diagram.
33.	State any one way in which a cesspool emptier is important in the promotion of sanitation in the community.
34.	State any one factor that determines the strength of an induced magnet.

35.
Apart from burning, give any one other example of a chemical change that requires oxygen to take place.

36. Write down any one plant that has compound leaves.

Use the diagram of the animal below to answer questions 37 and 38.



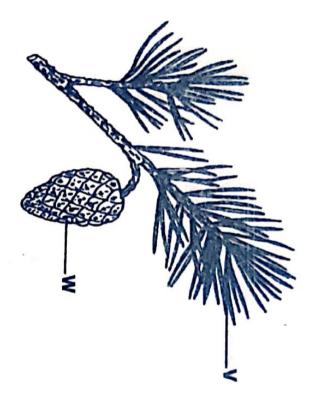
- 37. Identify the class of vertebrates to which the above animal belongs.
- 38. How does part marked L help to promote the health of the animal above?
- 39. liquids and insoluble substances. Name any one method that can be used to separate the mixture of
- 6 wood with soil. Give any one reason why a person making charcoal covers the logs of

SECTION B: 60 MARKS

Questions **41** to **55** carry four marks each

	42.		41. (
(b)	(a)	6	(a)
(ii) A convalescent: State any two reasons why health workers discourage mothers from feeding their babies using bottles.	(ii)	(ii) State any two ways in which a bee keeping business is important to a bee keeper. (i)	Write any two ways in which a bee keeper can stock the hive.

questions that follow. The diagram below shows a pine plant. Study and use it to answer the



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Apart from the pine plant, give any two other plants that has part

marked V.

44.	Liliar 90°c	h kept porridge in a vacuum flask when it was at a temperature of . After 6 hours, the temperature of the porridge had decreased by 50° c.
	(a)	What was the temperature of the porridge after 6 hours?
	(b)	State any one factor that could have caused the drop in the temperature of the porridge in the vacuum flask.
	(c)	Change the temperature of the porridge given in (a) above to (02 Marks)
45.	(a)	Give any one example of a mollusc that lives both in water and on land.
	(b)	State any two ways in which you can identify molluscs in the environment.
		(i)
		(ii)
	(c)	Mention any one way in which people benefit from molluscs.

46. The diagram below shows a method of harvesting tuber crops. Study and use it to answer the questions that follow.



(a)	Identify the method of harvesting tuber crops shown above.
(b)	State any one disadvantage of using the method above to tuber crops.
	uber crops.
(c)	Write down any two tuber crops that can be harvested using the method shown above.
	(i)
	(ii)

47.	Nam	Name the body organ that;
	(a)	stores bile juice:
	(b)	removes lactic acid from the body:
	(c)	adds oxygen in the body:
	(d)	releases mature ova:
48.	(a)	Name the germ that causes bilharziasis in humans.
	(b)	Mention any two signs of bilharziasis in humans.
		(i)
		(ii)
	(c)	State any one way in which the spread of bilharziasis can be controlled among humans.
19.	(a)	Name the part of the human ear that changes;
		(i) sound waves into vibrations:
		(ii) vibration into impulses:
	(b)	Which defect of the ear is caused by too much wax in the auditory canal?
	(c)	State any one way of preventing the defects of the human ear.

50. way of application in part B. The table below shows methods of applying fertilizers in part A and their

CS CamScanner

Part A: Method of	Part B: Application
Applying fertilizers	
Broadcasting	Fertilizers are placed in a ring around the plant
Spraying	Fertilizers are put into the planting holes
Placement	Fertilizers are spread allover the soil
Top dressing	Liquid fertilizers are sprinkled onto the soil

Match correctly the methods of applying fertilizers with their application in

(I) broadcasting:

- \equiv Placement:
- $\widehat{\mathbf{z}}$ Top dressing:

51.

(a)

 Ξ

Mention any two causes of truancy among school children.

 \equiv

9

 Θ

behaviour commonly practised by school children.

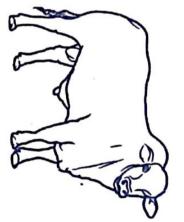
Apart from truancy, state any two other forms of anti-social

 \equiv

52.

questions that follow. The diagrams below show types of cattle. Study and use it to answer the

 $\overline{}$



(a) Name the types of cattle marked ${\bf K}$ and ${\bf J}$.

 \equiv

 \equiv Give one reason why the purpose of keeping the type of cattle ス

9 management. marked K is similar to the one of keeping Light Sussex in poultry

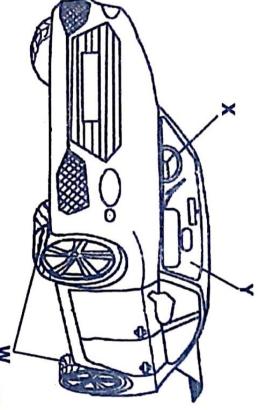
0 State any one physical difference between the type of cattle marked K and the one marked J.



(a) Give any two causes of choking to an individual. (b) State any one way in which choking affects a person. (c) Write down any one activity that you can carryout at home to help your sibling who has been choked while eating meat. You are provided with the following materials; Half kg of maize flour, water, a mingling stick and a saucepan. After putting water in a saucepan and boiling it, write four other steps you will take to prepare posho at home. (ii) (iii) (iv)	_						54.				53.
(ii)	3		3	9	Afte	Haif	You	<u>6</u>	(b)		(a)
					r putting water in a saucepan and boiling it, write four other steps will take to prepare posho at home.	f kg of maize flour, water, a mingling stick and a saucepan.	are provided with the following materials;	Write down any one activity that you can carryout at home to help your sibling who has been choked while eating meat.	State any one way in which choking affects a person.		Give any two causes of choking to an individual.

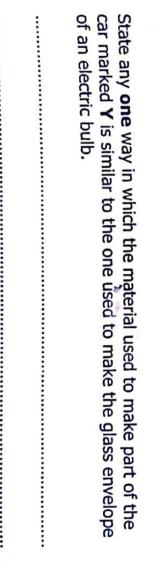
55. that follow. The diagram below shows a car. Study and use it to answer the questions

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(a)	
Identify the group of simple machines to which part marked ${f X}$	

9 belongs. Give one way in which structures marked W help to increase friction on the car tyre.



<u>O</u>

a State any one way in which part marked \mathbf{X} helps to make the driving of the car easier.

16