## PRE - PLE SPECIAL SET 1 - 2022

## **INTEGRATED SCIENCE**

Time allowed: 2 Hours 15 Minutes

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Sch	ool Random No:					1.011	
Dist	d the following instructions	•••••	•••••			FOR EXA	
1.	This paper has two sections A a		<u>ıy.</u>				
2.	Section A has 40 short questions	s. (40 ma	rks)		FOR I	EXAMINERS ONLY	' USE
3.	Section B has 15 questions. (60	marks)			QN. NO.	MARK	SIGN
					1-10	the side of	

 All answers must be clearly written using blue or black ball point pen or ink. Only diagrams should be drawn in pencil.

A and B must be written in spaces provided.

4.

Answer ALL questions. All answers to both sections

Unnecessary changes of work may lead to loss of marks.

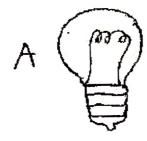
Do not fill in the boxes. They are for examiners' use only.

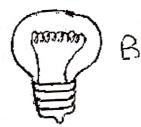
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41-43			
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47-49			
50-52			
53-55	174	ĝ.	
TOTAL		1	

## SECTION A

1. Apart from burning, name one other chemical change that
produces heat.
2. Give any one way rats are dangerous to our healthy.
3. How does wind increase the rate of transpiration in plants?
4. When do solitary insects come together?
5. Give one way of demagnetizing an induced magnet.
6. Name the type of twins that develop from one ovum.
7. Why is the eye of an insect said to be compound?
8. How does silting lead to floods?
9. Which component of blood carries carbon-dioxide?
10. Why do bee keepers leave some honey combs in the hive during honey harvesting?

## Study the electric bulb below and answer the questions 11 and 12.

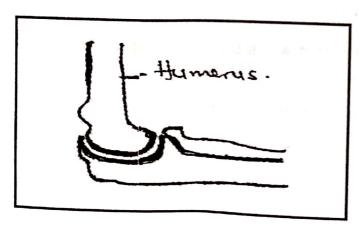




11.	Which of the two bulbs will produce more light if connected to the same amount of current?
12.	Give a reason to support your answer in No. 11 above.
13.	Name the component of a compass that enables it to show direction.
14.	How do plant roots control soil erosion in an area?
15.	State the property of light that enables the moon to give us light at the night.
16.	
<b>.</b>	
17.	Give one danger of taking less than the prescribed drugs.
18.	How do wild animals benefit from moving in groups?
	······
19	. Name the physical change that enables making of ice-cream.

2	0. Give one way of increasing the amount of nitrogen in the soil without use of fertilizers.
2	I. State any one way of managing the effect of HIV AIDS in the body.
22	. Study the method of family planning below and answer
	questions 22 and 23.
	OB STATE OF THE PARTY OF THE PA
22.	Name the method of family planning shown above.
	g one will above.
23.	Why is the above method not recommended for newly married
	couples?
24.	How does a lion control overgrazing?
25.	Which method of preserving meat involves the process of osmosis?
26.	Give one cause of Partial deafness in humans.
27.	How is a fence at school help in the control of COVID 19?
	***************************************

35 8	dy the diagram of a type of a joint below and answer questions
Stu	dy the diagram of the state of
34.	Why should planting seeds be treated?
33.	Mention any one factor that makes some ovules fail to become seeds.
32.	Give one way of preventing neonatal tetanus.
20	C'
31.	January Michael Con Midell Callette Mowe and Cagnitic.
30.	Why are people suffering from sickle cell disease always weak?
	on the spread of the venom.
29.	How does having some rest after being bitten by a snake reduce
	••••••
28.	Name the type of skeleton formed by the cuticle.



35.	Name the type of joint in the diagram above.
36.	Give one characteristic of the above type of joint.
37.	State the difference between a food chain and a food path.
38.	Give one way a teacher can promote proper body posture of children in the classroom.
39.	Give one way of resetting a clinical thermometer.
40.	Name the part of a mosquito that pierces the skin for easy sucking of blood.
	France Skill to the land of brundle work in any
	SECTION B
11.	(a) What name is given to an animal on which parasites depend?
	(b) State any two ways parasites affect the health of other animals.
	(i)
	(ii)

c) Give any one way of	f controlling ecto parasite	
		•••••••
(a) Apart from incline machine that help	d planes, give two other t in the transfer of objects	ype of simple
(i)	•••••••••••••••••••••••••••••••••••••••	•••••
). State any one factor plane.	that determines the effici	ency of an Incli
		••••••
,		
Complete the table	below about the practic	
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44. (a) Apart from real images, name another type of images.
(b) Give two characteristics of real images.
ii)
(c) Name any one optical instrument that produces real images.
45. (a) What is Kinetic energy?
***************************************
(b) Mention any two devices that transform Kinetic energy into other forms of energy.
i)
ii)
(c) State one way Kinetic energy in wind can be used directly.
46. (a) Give any two similar characteristics between pulmonary vein
i)ii)
(b) How does too much a
(b) How does too much fats affect the flow of blood?
(c) Apart from proper feeding, give one other way of keeping circulatory system healthy.
***************************************

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47. (a) Give one effect of poor supply of oxygenated blood to the brain.
(b). State the use oxygen to the brain.
(c) Mention any two conditions that lead to poor supply of oxygenated blood to the brain.
i)
ii)
48. Study the diagram below and answer the question that follow.
A B D
(a). What does the diagram above represent about soil?
(b). What do we call the movement of nutrients from A to B?
(c). Why are dicots able to use the nutrients that escape to layer B?
(d). Give <b>two</b> ways of conserving layer A.
i) ii)
ii)

49. a) Name the body organ affected by pneumonia in human beings.
b). Apart from germs, give <b>one</b> other Cause of pneumonia.
c). Give <b>two</b> ways of controlling of Pneumonia.
(i)
(ii)
50 a) What term is used to mean the tightening of or shortening of the muscles?
***************************************
b) Mention any <b>two</b> importance of muscle tightening or shortening.
(i)
(ii)
c) Name any <b>one</b> disorder of the muscles.
51 The diagram 1.1
51. The diagram below shows how electricity is generated from solar energy. Study it and answer the
solar energy. Study it and answer the question that follow.
SEL TONIA
a). Name the items <b>X</b> and <b>Y</b>
i) X (ii) Y
(11) 1

b). Apart from trapping solar energy, given one other function of item <b>X</b> .
••••••
c). State <b>one</b> advantage of using electricity generated from solar energy.
***************************************
52 a). Why does a female from move with a male during the laying of eggs?
b). How are the eggs of frogs protected from predators?
***************************************
c). Name <b>one</b> other animals that reproduces in the same way as a frog.
***************************************
d). In the space provide below, draw the eggs of a frog.
a). Apart from curing diseases, give <b>two</b> other uses of essential drugs.
(i)
(ii)
b). Give two ways how people use essential drugs.
(i)
(ii)
15  Page

54 a). Apart from control of friction, give <b>two</b> other uses of oil in o	ur
daily life.	
(i)	
(ii)b). State the characteristic of oil that enables it to control friction	n.
c). Give <b>one</b> disadvantage of poor disposal of used oil in the environment.	• •
55 a). State the method that can be used to separate each of the following mixtures.	•••
(i). salt and ash	
(ii). salt and water	•
b). How is water important when separating salt mixed with sand?	
••••••••••••••••••••••••••••••	
c). Why do mineral salt remain in the original container during distillation?	

END

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