## THE SIPRO PRE-PLE SET IV 2023

INTEGRATED SCIENCE

_	Time /	Allowed: 2 Hours 15 Minute
Index No.	Random No.	Personal No.

Candidate's Name

Candidate's Signature

School Random No.

District ID.

### READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- 1. This paper has two sections: A and B
- 2 Scillion A has 40 questions (40 Marks)
- 3 Section B has 15 questions (60 Marks)
- 4 Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
- 5 All answers must be written in blue or black ball point pens or ink. Only diagrams and graph work must be done in pencil.
- Unnecessary alteration of work will lead to loss of marks
- 7 Any handwriting that cannot be easily read may lead to loss of marks.
- 8 Do not fill anything in the troxes indicated

"FOR EXAMINER'S USE ONLY"

### For Examiner's Use Only;

Qn No.	MARKS	INITIALS
1-10		
11 - 20		
21 - 30		
11 40		
41 43		
44 - 46		
47 49		
50 - 52		
53 55		
Total		

Please turn over



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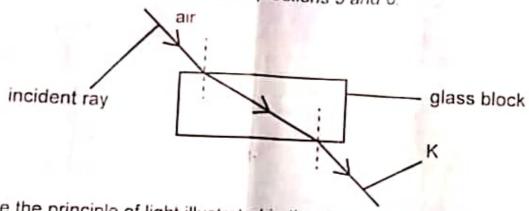
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### SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

- Mention any one example of a mollusc without a shell
- Write the duty of a worker bee in the development of the grub to become a queen.
- 3. How does the cold water poured on a burnt part reduce the effects of a burn?
- 4. By what process are clouds formed in a water cycle?

The diagram below shows a ray of light passing through a glass block from air. Use it to answer questions 5 and 6.



- 5. State the principle of light illustrated in the diagram above.
- 6. Why does ray marked with letter K bend away from the normal as seen in the diagram above?
- 7. How does bathing promote the personal hygiene of an individual?
- Which type of change takes place when salt dissolves completely in water?



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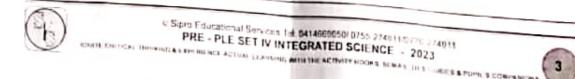
. Hairie Inc	e immunisable disease that affects the liver.
. State the	health challenge caused due to poor rubbish disposal in
a commu	
Which me	ethod of grazing cattle is commonly used by people living
in conges	sted areas?
Give the	difference in the feeding of hookworms and tapeworms.
	ties to that occurs in adolescents.
Mention	any one emotional change that occurs in adolescents.
	ver questions 15 and 16.  X  bars  bars  ould be done to the instrument above in order to produce
. What sho	ould be done to the money
sound?	
	the cound produced by bar marked
State the	difference between the sound produced by bar marked
	r X and bar marked with letter Y.
with letter	
with letter	of sweets contribute to poor oral
with letter	s the frequent eating of sweets contribute to poor oral



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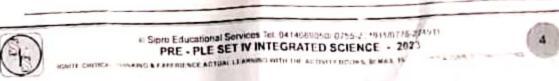
Why is shearing of sheep done during the dry season?
Mention one factor that makes people abuse drugs
What results from the condition of dehydration if not given early treatment?
Give one advantage of using biogas for cooking.
Mention any one role played by the tongue during digestion.
Why is it a bad practice to graze very many animals on a small piece of land?
The diagram below shows a method of cleaning water. Study a use it to answer questions 25 and 26.
water with stones and mud container B

- 25 Name the method of cleaning water shown in the diagram above.
- 26 Why shouldn't water obtained using the above method be recommended for drinking?



10	and halo of the lattine be covered
	Why should the squart hole of an ordinary pit latrine be covered when it is not in use?
	How does irrigation farming control inadequate food supply during prolonged drought?
30	What makes the weight of an object reduce once immersed in water?
	1. Apart from carbohydrates, which other class of food is a source of energy to the body?
	2. How is the Iris of the eye useful in the regulation of light entering the eye?
3	<ol> <li>Name the part of the respiratory system that is affected by choking</li> </ol>
;	34. How is pollination an important process in the maturity of flowering plants?
	The diagram below shows an activity done by a crop farmer to harvest dry coffee. Study and use it to answer questions 35 and 36

36. What name is given to the instrument labelled with letter F?



37 How are cotton seeds dispersed from their parent plant?	
38 In which part of a modern beehive does the queen bee lay its eg	ggs?
39 How is the use of solar electricity environmentally friendly compa	_
to that of hydroelectricity?	ared
40 How does row planting improve	_
40 How does row planting improve yields among annual crops?	
SECTION B: 60 MARKS	1
JUESUONS AT IN FE	_
41 The diagrams below are of an experiment carried out in primary sev  Use it to answer the questions that follows	
Use it to answer the questions that follow.	en.
© MINNIN	
MANAUKunnen - O	
Millinin	
A SE	
(a) Which type of electricity in	
(a) Which type of electricity is illustrated in the diagram above?	
(b) Why does the plastic comb attack.	
(b) Why does the plastic comb attract the pieces of paper as shown in diagram B?	
(c) Name the example of the	
(c) Name the example of the electricity illustrated above in nature.	_
d) Give one de-	
ove one danger of such electricity illustrated above	
d) Give one danger of such electricity illustrated above in nature.	
Mention any two ways pests can affect crops in the garden.	
dail allect crops in the garden	_
Write down two was	_
two ways of controlling pests without	
Write down two ways of controlling pests without using chemicals.	
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WITH THE ACTIVITY HOOK & SEWAL THE COM	

) feeding trough			
h) In which two way	s do poultry farmers benefit from using the deep litter		
system of keeping poultry?			
i)			
(a) Apart from occus	bying space, state two other characteristics that make		
a stone be called	matter.		
	The same of the sa		
(b) Why can't the vo	plume of a stone be got by calculating using the length		
of its sides?			
	19 亿		
the hebre	our of a stone when placed in a bucket full of milk.		
	elow show of examples of magnets. Study and use		
	he questions that follow.		
3/4/11- dillording			
M	N		
	A M. Lewiss M. and P.		
(a) Name the mag	nets marked with letters M and P		
(i) M	4		
(ii) P			
(b) How is magne	t M similar to magnet N?		
	magnet P to show the flow of magnetism		
(a) Hea arrows or	Thiagher. 10		
(c) Use arrows or			
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	garden tool used to carry out	
(b) Why is the seedlings	above tool the most recomm	nended one for transplanting
before tra	mportant for a farmer to carry naplanting them?	out hardening off of seedlings
(d) State the	most suitable time for transpla	anting ready seedlings.
	weathering, mention one other two organisms that help in the	ner way in which soil is formed.
(1)		
	mponent of soil is formed thro	ugh weathering?
(a) Why are	nimbus clouds important to cre	op farmers?
(i)	n nimbus clouds, write any oth	er two types of clouds.
	n cloudy weather, which other aters and jackets?	type of weather makes people
(a) Give any	two ways a child gets natural	immunity.
(ii) (b) Name any of a perso		greatly damages the immunity
(c) How can	such a disease in (b) above c	ontrolled from spreading?
	Soio I discational Strivers for 041456905	2/0755 274911/0/16 274521

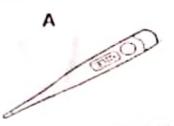
50. In the table below, part E shows the resources and part F shows their meaning in their wrong order

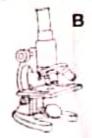
E: Resources	F: Their meaning
tide	fuel gas formed through fermentation of animal wastes
biomass	rise and fall of water level in an ocean
biogas	total amount of living matter in an area
geothermal energy	heat generated from underground

Select from the table the correct meaning of the resources	and write them
in the space provided below	

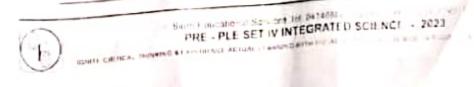
in the space provides	
i) tide	

- ii) biomass
- iii) biogas
- iv) geothermal energy\_\_\_\_\_ 51. The diagrams below show common equipment used by health workers. Study and use them to answer the questions that follow.





- (a) Name the instruments labelled A and B
- (i) A \_\_\_\_\_
- (b) How are the above instruments useful to a health worker?
- (i) A
- 52(a) Why is it important to give mouth-to-mouth breathing to a near drowned casualty?
  - (b) Why is a person unable to breathe after near drowning?



(H)		
Study and com	plete the table below corre	ectly
	Plants	
		Non-flowering plants
	Monocotyledonous	
	plants	Conifers
41-11-11-11-11-11-11-11-11-11-11-11-11-1	has many components -	
	two major components of	a tood chain.
(ii)	18	
	yo ways animals depend o	n other animals for survival.
(1)	10 11010	Total animais of survival.
(ii)	UE	
	e useful in the control of th	e spread of malaria?
(b) Write any tw	vo symptoms of malana in	fection in an individual.
(1)		
(ii)		1
(c) State the eff	fect of malana to the circul	atory system
	1100	
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28	0. 4	out of the hole/to prevent houseflies from coming out of the hole/to prevent houseflies from coming out of the hole.	To let in fresh air into the hole	Reasons for leaving the hole of the ordinary pit latrine open.	Discuss the advantages in the Viplatrine over the conventional pit latine.
		dry season/prevent crops from drying up during the dry season.	Allow survival of crops.	Reason why irrigation farming is important.	Go through the proper mediads of farming.
30	P.5	Due to upthrust force/upthrust force acts upon the object immersed in water.	Due to gravity.	Force in liquids that makes things weigh less.	Discuss the types of forces and their effects of weight.
2 2	P.4	Fats and oils/lipids	Proteins	Class of food which is a source of energy.	Group different foodstuffs and their
		ine itis regulates the size of the pupil/The itis controls the amount of light entering the eye.	Prevents light from entering the eyes.	Function of the iris.	Revise through optical instruments practically in details.
3.3	P.6	Windpipe/trachea	Gullet/throat	Passage of air into and out of	Emplastise on cholang warners
10	7. t	Pollination enables fertilization to occur/enables plants to produce fruit and seeds	Helps plants to grow well	importance of pollination.	Spelling and body system it affects.  Go the orthicharacteristics of wind and level gallmated flowers.
2	2	Measuring coffee/weighing coffee.	Sun drying	Be specific on what is being measuring.	Guide children to give complete
36	P. 5.	clock balance/weighing scale	Weighing balance	Correct name of the	Revise the instruments (said to
37	P.6	By help of wind/by wind	30.00	HSTHIBERT	
38	P.5	Brond chamber/queen chamber	Honey chamber	Dispersarin cotton seeds. Part of a modern beehive	Arvive send dispersal, Differentiate between a modern and
39	P.7	Solar electricity prevents the cutting down of trees for electric poles while hydroelectricity promotes cutting down trees.	Solar electricity converves the environment.	Accept a complete	of the
40	p.4	Row planting cases weeding/ reduces competition for nutrients.	Row planting makes	A way raw planting impreves	Revise through the crap or mine
4.1	P.7 a)	Static electricity	Friction	Type of electropy caused by	-
	ъ)	The plastic comb gains opposite charges to those of the papers/ the plastic comb gains static electricity/comb eets charged with	The comb is magnetic		Particular.

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10	9.5	Striking the bars/niting the bars/beating the bars/beating the bars.	Vibration of the liars when struck	Mode of playing xylophones	of adopt m
16	5.6 5.6	Bar X produces a high pitched sound while bar Y produces a low pitched sound.	Bar X produces little sound while Bar Y produces much sound	Appropriate interpretation diagrams.	Use rout m discuss the
17	P. 4	Remains of sweets attract bacteria in the teeth/remains of sweets attract bacteria that cause tooth	Sweets attract bacteria	Dangers of eating sweets.	disorders :
118	P.7	The liver	The kidney	Body organ that regulates blood sugar.	Take the ca
61	7.5	To protect sheep from too much coldness.	To prevent warmth.	Reason for reducing sheep for during the day season	Status in
20	9 d	Peer influence/poor social environment/coldness/stress/ success/desire to be confident/ desire to be hrave/desire to feel	To be confident/to feel mature	Factors that cause drug abus	ways of over
17	P.4	Death/general body weakness	Diarriboen	Result of prolonged denyotation.	In a detailt
22	p.7	Brogas does not produce smoke/ brogas conserves the environment/brogas helps to keep the food neat.	Brogas is used for cooking/biogas is used for lighting.	Advantages of using biogas, but not uses of biogas.	Encourage read and p questions.
23	P.5	For tasting/rolling food into a bolus/mixing food with saliva/ sending food to the gullet.	For chewing food.	Use of the tongue during digestion.	to throug
24	P.5	Leads to soil eroston/leads to leaving the land bare/exposes the soil to soil erosion agents.	Causes overgrazing	Effects of overgrazing	Soil extraction degrad of
25	P.6/5	Decantation method/three pot method	Filtration method	Correct name	Practicitis of separa
26	P.6/5	The method above does not kill germs in water/the water may still have germs/germs escape with water.	Decantation removes mineral saits.	Contamination of decanted water.	prdaid
27	P.4	Dropping ears/wounds on the ears, ears/pus discharge from the ears.	Painful ears	Sign of ear canker	Discussidiseases

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_	P.6	P.6 Slug/octopi/ souid AARKING POINT WRONG RESPONSE	MARKING POINT	T WRONG RESPONSE	I IV MARKING G
-	P.5	1.	Garden snail		
	P.6	become a queen/feeds the grub on royal jelly.	The worker bee takes care of the grub to become a queen.	akes Role of the worker bees in a o hive.	sina Rries II saib bee hive.
	P.3	around the injured part. Condensation process	Cold water heals the wound.	he Rules of cold water in reduction of temperature	
	P.7	Refraction/light can be refracted.	Lundession Light can be reflected		Help the learners to process on details
	P. 6	Ray K is moving from a denser medium to a less dense medium.	Bur trisefraction	than the Purhammar	of Sexual Court of
	P.5	smell/removes that hady smell/removes that from the hody/fulls germs on the body Physical changes	Make the hody clean	a laportanemet hathing	Go through the danger persons by grenc,
	P.4		Therman change.	A reversible change	Decree
10	P.5/7	tree of potting in the limits.	the grifte fruits	Present time of their	Meyer There's terrors.
T			Cirrhosis	municiple discount	preservation.
	F.4	diarrhoral diseases for diarrhoral reased number of the community.	Bad budy smell	Response should be a health	Revise the decases speed
-	7. 0.		Partdrekmy grazmy	Method of	
	P.4	Hookworms feed on blood while The Tapeworms feed on digested food, ma	They feed on decaying matter.	confined or grazing cattle in a Difference in feeding of	Whit a nearby ranch and abs methods of keeping lattic. Helit is seen
	P.6	The adolescent easily gets annoyed/ Devinterest in the opposite sex/the adolescents want to be recognized as mature/the adolescents want to be given freedom.	Development of breasts.	Emutional changes in adolescents	differentiate of structures of a Nutrition Differentiate the types of chiral that take place in adultments

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U	Lighthing	Linktonian		
ਚ [	Strikes people/animals to death /destroys people's property/causes electric fire outbreaks.	Fixes nitrates in the soil.	Correct spelling Dangers of lightning.	
(e +	They cause wilting/eat the leaves/make holes in the fruit/ weaken the stem/sprend diseases to the crop/reduce the crop yields/case stunted growth.	Pests damage crops.	Effects of pests on crops	Make a summary on the crup pests and diseases for particular commun plants/crops
G (	Fencing the garden/upronting affected crops/regular weeding /pruning/early planting/ practising crop rotation	Spraying using pesticides.	Reject the use of pesticides.	
(e / a	I) Prevents the breaking of eggs/ prevents dampness in the poultry house/makes cleaning of the poultry house easy/ absorbs poultry droppings.  ii) For putting mash/for putting feeds/protects poultry feeds from getting spoilt.	i) Keeps the poultry house clean. ii) It is eaten by birds.	Importance of poultry litter and feeding trough.	Make learning more practical by visiting a nearby poultry form and rectify on the systems of rearing poultry.
G	Egg collection is easy/ Birds are safe from predators/ Birds are safe from harsh weather/Many birds are kept in a small space.	It is good to rear poultry.	Advantages of the deep inter- system.	
P.5 a)	A stone has weight/a stone exerts pressure.	A stone occupies space/has volume.	Another characteristic of matter.	Carry out an experiment on finding the volume of irregular objects
<u> </u>	A stone has an irregular shape/ a stone has an improper shape. A stone sinks in water/a stone moves to the bettom of the water.	A stone has a proper shape. A stone floats,	Characteristics of irregular objects.	
P.7 a)	M - lodestone/magnetite P - U-shaped magnet/horse shoe magnet	M - earth P - bar magnet	Correct names.	Carry out practices on the properties of magnets
<u> </u>	Both are natural magnets/both exist on their own.	Both attract magnetic materials.	Similarity of lodestone and the earth.	

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Have a strong of paragraph of the second	A Contract of age of the state	Les thursely, the for places	The Party of States of the Party of the Part	The state of	Keyste od the body systems exhaustraty to entante manary		
- Correct mane - Correct spelling	Correct importance Water to the Jugs Prevention of accidents involved with water.	Correct groups	Paris of a food crass.	Correct mode of depondence of an improve of	to the spread of majora	A. William disease.	prestruction of the rea proper cells.
	To breathe again. The lungs chill. By lenting takes.	bean plant     nee     mosses     iv] ferns	Secondary concumer	People use animals for transport	A hoe is used for digging.	Vomiting	Majaria affects the heart/affects blood.
		II) Dicots/dicotyledonous plants III) Spore bearers/spore bearing plants iv) Cereals/maize/rice/nats/barley	decomposers Some animals out choles from out	animals/depend on other animals for food.	A hoe is used to dig tall bushes where mosquitoes hide/a hoe is used to dredge streams of water that habour stagnant water for breeding of trachoma.	High fever/loss of appealer/ service body weakness/froit	plastical germs destroy the red
51 P.3 a) b)	b) c)	P.7 a)	(q	1	P.3 a)	p)	U

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