THE SIPRO MOCK 2023

INTEGRATED SCIENCE

	Time	Allowed: 2 Hours 15 Mir		
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Index No.				
Candidate's Name:				
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READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- 1. This paper has two sections: A and B.
- 2. Section A has 40 questions (40 Marks).
- 3. Section B has 15 questions (60 Marks).
- Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
- 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.
- Any handwriting that cannot be easily read may lead to loss of marks.
- 8. Do not fill anything in the boxes indicated:
 "FOR EXAMINER'S USE ONLY"

For Examiner's Use Only;

PAGES	MARKS	INITIALS
Page 1		
Page 2	glab /s	PARKET (B)
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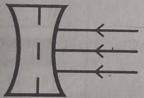
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SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

- 1. Name the part of a lever that lies between the effort and the fulcrum.
- 2. Which food value is obtained from eating food from legumes?
- 3. How are antennae on an insect similar in function to the skin in mammals?
- State one activity done by bee keepers to attract bees to occupy a new hive.
- 5. Give a reason why a person suffering from diarrhoea should be given treatment for dehydration.
- 6. Name any one exotic breed of goats kept for milk production.
- 7. In the diagram below, draw the light rays as they pass through the the given lens.



- 8. In which way does wearing shoes help in the prevention of anaemia?
- 9. Name the reproductive cells in most fungi.
- 10. State the role of the brain in the process of hearing.
- 11. How are spiders helpful in the control of malaria in a home?
- 12. Apart from high temperature, name any other agent that contributes to the weathering process during soil formation.



	Write the importance of the blubber to aquatic animals like whales and dolphins.
14.1	How are red blood cells able to carry oxygen in the human body?
15.1	Name the disease of the heart caused by regular smoking of tobacco.
16.	Write any one way a sheep farmer can identify a sick sheep on the farm.
17.	Where in plants does fertilization take place?
18.	How does paddock grazing help to control the spread of tickborne diseases amongst cattle?
19.	State one effect of polio to an individual.
20.	How is the liver important during the process of digestion?
	State one primary sex characteristic that is common in both adolescent boys and girls.
22.	Give the role of sunlight during the process of photosynthesis.
	The diagram below is of part of a sugarcane. Study and use it to answer questions 23 and 24.

23. Name the part marked with letter E.

24. Give one function of part marked with letter P on the diagram.



25. In which way are humps important on busy roads?
26. How is the process of discountry to add ?
26. How is the process of digestion important in the human body?
27. Why is it difficult to put off petrol fire using water?
28. State any one practice done to conserve soil in hilly areas.
20 November 20 Nov
29. Name the region of the kidney where urine is formed.
30. How is a biological change similar to a chemical change?
31. Why is it important to wear clean clothes?
32. Give a reason why school children are advised to abstain from sex until marriage.
33. Name the process in plants that helps in rain formation.
The diagram below is of a sports shoe. Use it to answer question 34.
N Question 34.
34. Why are structures marked with letter N useful to a football player on a
rainy day?
35. State any one characteristic of images formed by plane mirrors.
36 Which form of smoking is suffered by family many
66. Which form of smoking is suffered by family members whose father come back home while smoking?
7. Why should parents feed their children on a balanced diet?



In which war person?	y is taking	an underd	dose da	ngerous t	o the health of a sick	
				distr.A		E
State any or method.	ne activity i	in a home	which r	requires the	ne use of the decanta	itio
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	Questio	SECTION ns 41 to 5			ks each.	
a) Name the						
	31					
b) Mention	one sign a	nd one sy	mptom	of measle	es in infants.	
i) sign						
ii) symptom					THE REAL PROPERTY.	
		the measl	es vacc	ine is not	administered to babi	es
birth.						
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				instrume	nt. Study and use it	to
answer the	questions	that follow		buttons		
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	1	1				
		4		Hedel	er	
E BIRTH		sound hol	le '	attended to		
a)To which g	group of m	usical inst	trument	s does th	e one drawn above	
belong?						
b) How does	the music	cai instrun	nent dra	awn abov	e produce sound?	
				M.C. Carrier		



c) State the function	of the following features indicated on the guitar
above. i) sound hole	
ii) tuning buttons	
	ans in list A with their functions in list B.
List A	List B
liver	detects smell
brain	
	stores vitamins and mineral salts
lungs	balances the body
nose	for breathing ,
i) brain	
ii) liver	the solution to an engine and the new one lost will fe
iii) nose	
iv) lungs	
a) Name part mark	
b) State the function	n of part labelled S on the grain.
c) What does part I	abelled R develop into after germination?
d) Give the reason	why a maize grain is regarded as a fruit.

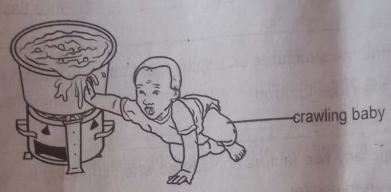


i. a)	Name the pole of a magnet from which the lines of force run.
b)	Which method enables a piece of iron attached to a permanent magnet gain magnetism?
	Mention any two ways of making a magnet lose magnetism.
i)	
ii)	adult stage of a mosquito. Study and use
	he diagram below shows an adult stage of a mosquito. Study and use
it	to answer the questions that follow.
	AN AND THE RESERVE OF THE PARTY
) Identify the type of mosquito shown in the diagram above.
b) Use letter P and a label to show the part a mosquito uses for feeding.
C	How is the mosquito drawn above dangerous to people's health?
	How can mosquitoes at the stage shown above be controlled in a
,	community?
	COMMISSION
) Mention any two activities in which inclined planes can be used in our
1. 8	
	daily life.
i	
1	i)
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working rate. working inclined planes can increase on their
i)
ii)
48.a) Name the structures on poultry feet that enable them scratch the ground as they look for food.
b) State any two factors considered when choosing the type of mash to be given to poultry. i)
c) Give any one factor that may lead to low egg production on a poultry farm.
49.a) Name the solution made by mixing salt and water.
b) What does each of the following substances act as in the solution formed? i) salt
ii) water
c) How can salt be recovered from such a solution?
50.a) What form of energy is stored in dry cells?
b) State the energy change which occurs in a functioning dry cell.
c) Name the non-metallic conductor of electricity in a dry cell.
d) Which form of current electricity is produced by a dry cell?



51. The diagram below shows a common accident at home. Study and use it to answer the questions that follow.



	a) State two possible accidents which may occur from the situation above.
	i)
*	b) State the first aid which can be given to the baby in case of any of the accidents mentioned in (a) above happens.
	c) What can be done at home to prevent such accidents from happening?
52	a) Name the mineral element which is absent in breastmilk.
	b) State one way in which breastfeeding is important in each of the following situations: i) promoting the health of the baby
	ii) promoting child spacing in a family
	c) Why should breastfeeding mothers be given plenty of fluids to drink?



53.a) Give the function of the following parts on a thermos flask:
i) double silvered walls
ii) vacuum
b) Name one material from which the cork of a thermos flask is made.
c) Write any one way of caring for a thermos flask.
54. The diagram below is of a fish. Study and use it to answer the questions that follow.
a) Name the part marked with letters; i) L
b) Give the function of these parts on a fish.
i) N
ii) P
55.a) State two importance of trees planted in the school compound.
i)-
ii)
b) Mention any two ways in which pupils can care for the trees planted in the school compound.
(i)
ii)



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impulses.	Spores	that may lead to loss of blood.	Shoes prevent hookworm penetration into the feet / shoes prevent hookworms that suck blood from penetration into	#	Saanen /Alpine /Toggen burg/ Anglo-Nubian	To replace the lost water and mineral salts in the body / To enable the diarrhoea patient get energy/ To prevent dehydration	Smearing honey inside the new hive /placing a sugar solution inside the hive /planting flowering plants near the new hive.	Both the antennae and the skin are used for feeling/ Both the skin and antennae are organs for feeling /Both are used to detect temperature	Proteins	Load	CORRECT ANSWER
The brain receives impulses	By means of spores		Shoes protect the feet		Mubende /Angora	To prevent diarrhoea	Stocking the hive	Antennae are used for feeling	Body building food	pivot	WRONG ANSWER
Role of the brain in the hearing process.	Gametes in fungi		Prevention of blood loss.	Diverging effect of a concave lens on a parallel beam	Dairy breeds of goats	Rehydration of the body	An activity that attracts bees into a hive	Response should be in line with both Antennae and the skin; should be a comparison response.	Should be the real name rather than the descriptive name	Middle part of a second class lever	MARKING POINT
Revise through the parts of the ear and their functions.	Discuss the modes of reproduction in different organisms		Train candidates on proper answering techniques.	Help candidates master the effects of different lenses on a beam of light.	Discuss the advantages and disadvantages of different breeds of animals and steps to improvement of animal breeds.	Go through ways of managing different communicable diseases.	Organise detailed revision work on bee keeping and thoroughly hold a detailed discussion about bee keeping.	Compare parts of animals to those of the human body in terms of function.	Discuss the sources of food and their food values.	Use real tools to display the classes of levers and the positions of the load effort and pivot.	TECHNICAL ADVICE/ COMMENT

11	P.6	Spiders feed on adult mosquitoes that spread malaria.	Spiders trap mosquitoes	Trapping and feeding on mosquitoes	Discuss the several ways of vector control and control of communicable disease.
12	P.5	Animal movement /fast flowing water /wind	Sun's heat	Agents of weathering	Remind the learners on the methods of soil formation.
13	P.6	The blubber prevents heat loss from a whale's body / The blubber shields the body against heat loss.	The blubber keeps the body warm	Importance of blubber	Help candidates know the adaptations of different animals to their habitats.
14	P.6	Red blood cells have a disc shape /are disc shaped / have haemoglobin.	Red blood cells are many	Adaptations of red blood cells	Discuss the functions and adaptations of blood components.
15	P.6	Coronary heat disease /coronary artery disease	Diabetes	Disease of the heart caused by smoking	Organize summarized work on the heart, blood and blood vessels.
16	P.5	When the sheep has a nosal discharge / wounds on the feet /painful udder and teats / wounds on the udder and teats / running nose /watery eyes /limping in the sheep.	The sheep moves up and down	Signs and symptoms of diseases/infections in sheep	Go through the effects of infections to livestock.
17	P.4	In the ovary	In the stigma	Part where pollen fuse with ovules.	Revise the parts of a flower and their functions.
18	P.6	Paddock grazing breaks the life cycle of ticks /starves ticks to death.	Paddocks prevent cattle from ticks	Breaking the life cycle of ticks	Discuss the advantages and disadvantages of paddock grazing.
19	P.5	Polio causes lameness / causes paralysis of limbs / deformation of bones /weakness in the limbs	Polio makes a person weak	Effect of polio to bones	Organise revision questions on immunisable diseases and all about it.
20	P.5	The liver produces bile juice.	The liver breaks down food	Production of bile juice	Use a model of the digestive system and go through the functions of the parts.
21	P.6	Production of reproductive cells begin /production of sex hormones begins.	The penis enlarges	Common characteristics in female and male adolescents	Help learners to understand the different characteristics in adolescents.
22	P.4	Sunlight breaks water into oxygen and hydrogen/ sunlight provides energy needed for photosynthesis.	Sunlight helps plants to make food	Role of sunlight in photosynthesis	Go through germination and photosynthesis.
23	P.4	Node	Internode	Correct name of labelled part.	Get a real sugarcane stem and discuss the parts in a detailed way.
24	P.4	Part P develops into the shoot system /develops into a leaf.	Part P develops into roots	Part P grows into the shoot	Help candidates know the difference between the axillary bud and the

36	35	34	33	32	31	30	29	28	27	26	25	
P.6	P.7	P.7	P.4	P.3	P,6	P.5	P.7	P.5	7 P.5	6 P.5	5 P.2	
Passive smoking	right verted /are of ne object	Structures N increase friction to prevent the football player from sliding in the field.	Transpiration	To prevent childhood pregnancy/ To prevent themselves from getting HIV/AIDS / To prevent school dropout.	Prevents a bad body smell /prevents easy spread of communicable skin diseases / prevents a bad odour.	Both chemical and biological changes are irreversible /can't be reversed.	cortex	Terracing /afforestation/strip cropping /afforestation /contour ploughing	Petrol floats on water and continues burning / petrol is less dense than water so it floats and continues to burn.	Digestion helps to break down food into soluble particles.	Humps reduce the speed of vehicles.	
Active smoking	The Images are upside down	To increase friction	Photosynthesis	To prevent diseases	Makes the body clean	Biological change is reversible while a chemical change is irreversible	Medulla	Mulching		Digestion enables food to be absorbed in the blood stream	Humps control accidents	
Type of smoking where an individual inhales tobacco smoke	Characteristics of Images formed by plane mirrors	Prevention of the football player from falling	Plant process involved in the water cycle	messages	clothes.	-	Part of the kidney where the blood is filtered.	Control of soil erosion in hilly areas.	Density of petrol compared to that of water.	Importance of digestion	Reduction of speed.	
Emphasize to the individual, rainly and community.	mirrors to discuss the Images formed there-in.	respectively.	Perform an experiment about the water cycle with the learners to enable them understand it better.	discussion especially as a way of aiding lower classwork concepts.	cleaning clothes and the importance of each.	their characteristics as well.	Use the cattle kidneys to elaborate more about the parts of a kidney and their functions.		Train learners on ways of putting out fire in various ways in case of an outbreak.	Revise the importance of different body processes.	Brainstorm on ways of controlling road accidents.	lateral bud.

	45			1		4.4	44			43				42				41		40	39	38	37
	P.7					46.3	DA			P.4				P.6				P.5		P.6	P.6	P.6	P.4
b) Induction method	a) North pole	scars	d) A maize grain has the stalk scar and style scar /Has two	c) Root system	to the cob.	h) For attachment of the grain	a) Endocrores	iii) detects smell	salts	i)balances the body	ii) For changing /altering the length of the strings	c) i) To let out sound	b) By vibration of the strings when plucked	a) String musical instruments	c)A baby is born with enough immunity against measles that lasts for nine months.	ii) High fever/Itching skin	b)i)Red eyes /dry cough /skin rash •	a) Virus		Preparing clean water for washing clothes/mopping /washing utensils	Underdose leads to prolonged sickness/slow recovery.	Plant roots have root hairs that absorb water and mineral salts.	/stunted growth /To promote good health.
Stroked method	South pole		Stores food	Shoot	an processor	For protection	Tacta	iv) stores vitamins and minerals salts	iii) for breathing	i)Detects smell	To changing pitch	To produce sound	By plucking the strings	Wind musical instrument	A baby has immunity	Skin rash	b) High fever	a) Bacterium	SECTION B	Preparing drinking water	Leads to drug abuse	By osmosis	To be line
correct method defined	Flow of magnetism		Presence of two scars	Function of the radicle	Correct use of a stalk scar	rait that stores rood in a	Part that the		0000	Correct functions of body	Role of the pegs	Importance of a sound hole	Vibration of sting	Musical instruments with strings.	Validity period for the measles vaccine	Indicators of measles vaccine	The state of the s	Germ that causes measles		Preparing water by decantation	Effect of underdose to human health	Structures on a plant that absorb water and mineral salts from the soil	balanced diet
and carry them out practically.	Go through the properties of magnets				dicot seeds.	Use a well drawn chart to discuss the			organs and now to care for them.	Revise the role of different body			different objects.	Use real musical instrument to teach about production of sound by			methods of vaccine administration.	Revise the immunization schedule		Discuss the method of preparing clean water and safe water.	Differentiate between drug abuse and drug misuse.	Take candidates through adaptations of a plant to different processes	food values in the body.

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			P./			P.5			F.0			P.7			P.3	
d) direct current /DC current	c)carbon rod	electrical energy changes into	a) chemical solution	dryness/crystallization		ation	/poor housing /little space in the coop	poultry poultry /age of	a) Claws/Talons	b)By making the slanting surfaces longer /By putting rollers on the slope /By reducing the angle of inclination	/moving to upper floors of storeyed building /painting buildings /loading animals on vehicles	/clearing tall bushes near the home	c)spreads malaria to people / spreads plasmodia germs	To and the second	a) Female anopheles mosquito	/keeping like poles together for long /strong hitting /leaving a magnet to rust
Alternating current	Electrolytic paste	Electrical energy into chemical energy	Electrical energy	Filtration	Liquid	Oral rehydration solution	Poor breeds	Group birds	Strong feet	By oiling the slanting surface	-Doing work with less effort	By killing them	Spreads yellow fever		Tiger mosquito	Mishandling the magnet
Non electric conductor in a dry cell.	current electricity in		cell	Correct method of separating salt from salt solution	Correct scientific names,	Correct name of solution.	Causes of low egg production	Determination of poultry feeds.	Scratching parts of a bird	Making inclined planes use less effort	Uses of inclined planes	Control of adult mosquitoes /ways of killing adult mosquitoes.	Diseases spread by malaria germs	Part that a mosquito uses for	Moonist	Demagnetisation of magnets
	or me barro.	simple circuit and discuss the	Give chance to candidates to sature	be controll	mixtures with the candidates to	Practically separate different	practices.	demonstration on the feeding of	Visit a nearby poultry farm and get		Uses real machines to explain the ways simple machines simplify work. Emphasis should be put on all groups of simple machines.		people's nearrn.		+	