THE SIPRO MID - TERM III EXAMINATIONS 2022

SUBJECT :

INTEGRATED SCIENCE

CLASS

PRIMARY FIVE

DURATION:

2 hours 15 minutes

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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	*	
Page 3		
Page 4	171	1.012
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THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA

PUBLISHERS OF THE SIPRO TEACHERS' GUIDES, LEARNER'S WORKBOOKS & PUPIL'S COMPANIONS

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Which part of a flower attracts birds and insects for pollination? Give one example of a biological change in animals. 3. How do trees in the school compound prevent damage of school buildings by wind? Name the part of a fish that protects the gills. 5. Why do most people prefer rearing rabbits to rearing goats in their homes? Give one characteristic of social insects. State one danger of keeping fingernails long. 8. What First Aid is given to a person who has been burnt by fire on the foot? Name one method of food preservation that involves the use of heat. 10. Why is a rat not a friendly animal to a crop farmer? The diagram below shows a common item. Study and use it to answer questions 11 and 12. 11. Name the item shown above. Give one type of weather in which the item above is used.





13. Which food deficiency can lead to marasmus?
14. State the type of objects which requires displacement method to find to volume.
15. Give the importance of oxygen to a germinating bean seed.
16. Which part of an irish potato plant is eaten by people?
17. What is the function of a kink in a clinical thermometer?
18. How can salt that has dissolved in water be recovered from its solution
19. Name one common vector with a nymph as a stage in its life cycle.
20. Give any one way of preventing tooth decay.
21. State one condition needed for bacteria to multiply.
22. How does mulching improve soil fertility?
The diagram below shows an equipment used in bee keeping. Study a use it to answer questions 23 and 24.
23. Name the equipment shown above.
24. State the importance of the equipment shown above to a bee keeper.
25. How are pawpaw plants adapted to cross pollination?
26. Apart from meat, name one other food product obtained from poultry.





27. Why do Ugandan farmers prefer keeping local breeds of g exotic ones?	joats to
28. State one use of insulators to a mother cooking in the kitc	hen.
29. Why is dew formed in the night but not during the day?	î
30. How is reproduction in yeast different from that of a mushr	oom?
31. In which one way is a health parade important in a school	?
32. State any one use of food to the human body.	
 Apart from malaria, name one other disease spread through bites. 	gh mosquito
34. Why does a nail sink in water?	'E IE-
35. What does a hookworm feed on in the human body?	
36. In the space provide below, draw a diagram to show that ai pressure.	ir exerts
	1
37. State any one sign of pest damage on crops.	
38. Name the part of the leaf that allows gaseous exchange.	. III3
39. Which method of heat transfer enables a mother to dry was on the wire?	hed clothes
40. Name one tool farmers use for closed castration in male sh	
	еер.





SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.
41 (a) State one reason why gaps are left between railway lines.

(b) What would happen to the rail, if the gaps were not left between them especially when it is hot?
(c) Give a reason for your answer in (b) above.
(d) State any one thing that happens to matter on cooling.
42. The diagram below shows a domestic animal. Study and use it to answer
the questions that follow.
(a) Name the part marked with letters:-
(i) S
(ii) T
(b) How does the animal above benefit from part marked with letter T?
(c) Mention the product obtained by people from part marked with letter R?
3(a) Write any two methods of rearing poultry that limit the movement of birds. (i)
(b) Give two importance of litter in a poultry house. (i)
(a) What term describes the process by which plants make their own food?
(b) Mention two raw materials needed for the process in (a) above. (i)
(ii)
(c) State the importance of chlorophyll during the process in (a) above.





	that can be used for giving I	First Aid for a fracture.
(ii)		
(c) Why is it important t First Aid?	o check on the heartbeat of	a casualty before giving
46 (a) Give one advantage	of feeding on a balanced d	iet.
diet.		ood that make up a balanced
(i) (ii)		
\ /		
	of malnutrition in children.	
and the question	ows activities carried out land that follow.	by P.5 pupils. Study it and
Р	Q	R
(a) Name the element of F	rimary Health Care promot	ed by the pupil in diagram
(b) Apart from the elements	s being promoted in the dia	Orama ab
other element of Primar	y Health Care.	grams above, name any
(c) When is it recommende	d for the pupils to carry out	the activity in diagram Q?
	n the control of diseases?	





48 (a) Apart from the elderly	, mention two other vulnera	ble groups of people.		
(i)				
	the state of the same			
	ring for the elderly at home.			
(ii)				
	ing components of the enviro	onment		
(i)	ing components of the civile	Similant.		
(ii)				
(b) Give two ways of car	ring for plants as a compone	nt of the environment.		
(i)				
(ii)				
0. The diagram below sh	ows common vectors. Stu	dy and use it to answer the		
questions that follow.	В	С		
0	\ /			
	s spread by the vector repres	-		
(ii)				
(c) How does vector C sp	oread diseases among peop	le?		
51. Match the body organs	in list A to their senses in lis	st B.		
A	В			
ear	smell	ing		
nose tasting				
skin	hearing			
tongue	feelin	g		
Sense	Organ			
i)	smelling			
ii)				
iii)	hearing	1		
. iv)		9		





52(a) How do the following animals protect themselves against enemies (i) snake	5?
(ii) millipede	
(b) Why do animals move from one place to another? (Give two reas	ons)
(ii)	
53. The diagram below shows a method of separating mixtures. State it to answer the questions that follow.	udy and use
and questions that follow.	
funnel	
x	
(a) Which method of separating mixtures is shown in the diagram abo	ve?
(b) Give one example of a mixture that can be separated using the me shown in the above diagram.	ethod
(c) Name the substance marked with letter X in the above diagram.	
(d) Mention any one activity at home carried out using the above meth separating mixtures.	od of
54(a) Give two ways of preventing rusting of metallic objects.	70
(i)	
(ii)	
(b) What type of change is rusting?	
(c) Apart from rusting, give one other example of the changes named in	(b) above.
55(a) Write two examples of annual crops.	mrjizasaa
(i)	
(ii)	
(b) Give two ways of caring for annual crops.	
(i)	
(ii)	





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NO.	CLASS	O. CLASS CORRECT RESPONSE	MARKING	1	WRONG RESPONSE TECHNICAL ADVICE
]-:	P.4	Petals/Bright petals/Pollen/Nectar	Chima Constr	E	
	a(m)		oughid/ ocpais.	pollination agents.	use of a real flower to discuss the parts.
5	P.5	Moulting (ecdysis)/Growth/Fertilisation/ Adolescence in humans.	Transpiration/Germination.	Biological change in plants.	Discuss the types of changes in the environment with clear characteristics.
3.	G.	Trees act as windbreaks/Trees reduce the strength of wind.	Trees trap wind.	Trees as windbreaks.	Discuss the ways of conservation of the environment.
4	P.3	Gill cover/Operculum.	Gills	Part that protects the gills.	Discuss the parts of a fish, and their importance.
	P.4	Rabbits multiply faster than goats/ Rabbits take a smaller space than goats/ Rabbits need less care compared to goats.	Rabbits reproduce fast while goats don't.	Accept a complete comparison.	Train learners on proper ouestion approach.
9.	P.3	Social insects move, live and work together/Live in colonies.	Social isects give us honey/Have six jointed legs.	Characteristics of social insects.	Differentiate between social and solitary insects.
7.	P.2	Long fingernalls are hiding places for germs/Long fingernails may harm the skin/Cause cuts to the skin.	Long fingernails cause poor personal hygiene.	Danger of long fingernails.	Go through the steps done to promote personal hygiene.
ထံ	P.4	Dipping the injured part in cold water/ Place the burnt foot in cold water/Pour cold water on the burnt foot.	Putting salt on the burnt- part.	Act done to cool the temperature of the burnt part.	Discuss the control measures of accidents in the community.
9.	P.4	Sun drying noking/Dip frying.	Roasting/boiling.	Method of preserving food that involves heat.	Go through the importance of food preservation.
10.	P.3/P.4	A rat eats the crops/A rat destroys the crops/A rat eats the tuber crops.	A rat disturbs the farmer.	Danger of rats to a crop farmer.	Revise the signs of pest damage to crops.
11.	P.2	Umbrella.	Ambrella.	Correct spelling.	Remind the learners of management
7	1.4/1	weather.	Sunshine/Rainfall	condition of weather where an umbrella is used/Check the spellings.	or ameren, types or weather.
13.	P.4/P.2	Deficiency of carbohydrates.	Proteins	Correct spelling, and food value lacked.	Help learners know the deficiency diseases and their causes.

14.	P.5	Irregular objects.	Regular objects/Stones.	Type of objects with improper objects.	Practically carry out the displacement method in the classroom.
15.	P.3/P.4	Oxygen is used for respiration/Oxygen helps in energy formation.	Oxygen provides energy.	Response should be in line with energy formation (respiration).	Use the school garden to investigate the conditions necessary for respiration.
16.	P.5	Stem tuber	Roots		Discuss the food storage parts of different crops.
17.	P.5	To prevent the backward flow of mercury/ To stop mercury from flowing backwards.	To keep mercury.	Prevention of the backflow of mercury.	Go through the types of thermometers, and the thermometric liquids.
18.	P.5	By evaporation to dryness/ By crystallization/By evaporating the solution to dryness.	By drying the solution.	Correct method.	Practically carry out methods of separating mixtures.
19.	P.4	Cockroach	Cokroch	Correct spelling.	A discussion about insect lifecycles will aid retention.
20.	P.4/P.5	By regular brushing of teeth/By regular rinsing of the mouth/By dental flossing/Avoid eating sugary foods.	By treating teeth.	A preventive measure.	Help learners know the difference between control measures and preventive measures.
21.	P.5	Presence of food/Presence of warmth/ Presence of moisture.	Carbon dioxide	Conditions that favour bacteria reproduction.	Differentiate between reproduction in bacteria and that in fungi.
22.	P.4/P.3	Mulches decompose to form humus/ Mulches decay to form humus.	Mulches make the soil fertile.	How mulches improve soil fertility.	Use the school garden to discuss the significance of mulching in the garden.
23.	P.5	Swarm catcher/Swarm catching net.	Net .	Correct name.	Discuss the factors considered when
24.	P.5	For stocking a new hive/For enabling bees occupy a new hive.	For trapping bees.	Use of a swarm catcher.	setting a nive.
25.	P.4	Pawpaw plants are single sexed/Have the stamen and pistil on different plants.	Pawpaw plants have both flowers.	Adaptation of plants to cross pollination.	Go through the types of pollination in a detailed way.
26.	P.5	Eggs/droppings/Feathers.	Chicken/Beef.	Exempt meat.	Go through the types of chicken, and their examples.
27.	P. 5	Local breeds of goats can withstand harsh weather more than exotic ones/Local breeds of goats are more resistant to diseases than exotic ones/Local breeds need less care than exotic ones.	Local breeds grow faster than exotic breeds.	- Advantages of keeping local breeds to exotic onesAccept complete comparison.	Take the learners through the breeds of sheep, goats and pigs with the products obtained from them.

28.	P.5	For carrying hot saucepans/For holding hot metals without being burnt.	For putting food.	Roles of insulators in the kitchen.	Use real objects to differentiate insulators and conductors.
29.	P.5	During the night, there isn't sunshine to dry the vapour, while there's sunshine that dries the vapour during day time.	Due to condensation.	Accept a comparative response.	Discuss the different changes in plants and their effects.
30.	P.5	Yeast reproduces by budding while a mushroom reproduces by spore formation.	Yeast reproduces by spores while a mushroom reproduces by cell division.	Reproduction in a mushroom and yeast.	Go through reproduction in fungi and bacteria.
31.	P.5	A health parade helps to promote personal hygiene among pupils/Prevents the spread of skin diseases among pupils/Checks of the hygiene of pupils.	A health parade promotes sanitation.	Importance of health parade.	Go through ways of ensuring health among people.
32.	P.4/P.2	Food provides energy in the body/Food keeps the body healthy/Food helps in body growth.	Food makes a person happy.	Importance of food in the body.	Discuss the different classes of food and their roles in the body.
33.	P.3	Yellow fever/Elephantiasis/Dengue fever/Filariasis.	Typhoid	A mosquito born disease.	Revise about mosquito lifecycles in a detailed way.
34.	P.5	A nail is denser than water/Water is less dense than a nail.	A nail is less dense than water.	Density of a nail in comparison with water.	Practically discuss objects in terms of density.
35.	4.4 4.4	Human blood/Blood.	Digested food.	Food for a hookworm.	Discuss the danger of intestinal worms in the body.
36.	P.3	glass		Accept the drawing for air exerts pressure.	Experiments on different properties of air will aid mastery.
37.	P.4	Holes on the leaves/Bitten stems/Rotten roots/Bitten roots/Damaged fruit/Wilting/stunted growth.	Yellow leaves.		Use the school garden to show the signs of pest damage to plants.
38.	P.3	Stomata/Stoma.	Spiracles.	Breathing organs on a leaf.	Go through parts of a leaf and their functions.

		The second secon	The state of the s		
39.	P.5	Radiation.	Conduction.	Heat transfer through a	Go through the methods of heat
				vacuum.	transfer.
40.	P.5	Burdizzo/Elastrator/Loop/Rubber band.	Knife	A tool used for closed	Revise the animal farm management
				castration.	practices and the tools used.
_	11 11		SECTION B		
41.	P.5	a) To give room for expansion during hot	To give room for expansion	Reason for leaving gaps in	- Discuss the effects of heat gain or
		weather.	and contraction.	rails.	heat loss on matter; and how to
D) to the second		b) The rails would bend.	The rails would rust.	Effect of expansion to rails.	manage them.
-	* +-tomorrows	c) The rails would lack enough room for expension.	The rails would rust.	Effect of expansion.	
-		A William Commence (Col. of the Art		Title and beautiful	
		d) Matter contracts/Shrinks/Loses temperature/Becomes cold.	Matter expands.	Effects of heat loss on matter,	
42.	P.3	a) S - mouth	S - beards	Correct naming.	- A thorough discussion about parts
	-00	T - horns.	T - ears		of domestic animals is paramount.
	2.5	b) Part marked T helps the animal to	For decoration.	Use of horns to a goat.	
	1	protect itself.			
		c) Milk	Meat/Udders.	Substance obtained from the udder,	
43.	P.5	a) Cage system/Battery system/Pen	Open range system.	Indoor poultry rearing	 Visit a nearby poultry farm and
		system/Fold system/Deep litter system.		systems.	identify the systems used. Also ask
7.	4.	b) Litter prevents dampness in the	Litter is cheap/Litter cools	Correct use of litter in a	. the farmer about the poultry
		poultry house/Keeps the poultry house	the house.	poultry house/For drinking.	management practices.
		warm/Prevents eggs from breaking/			
		Makes it easy to clean the poultry house.			
44.	P.4	a) Photosynthesis.	Photoysthnsis.	Correct spelling.	- Have a brief discussion about
_		b) Carbon dioxide/Water.	Chlorophyll/Sunlight.	Raw materials.	photosynthesis.
	ni iai	c) Absorbs sunlight.	Makes food.	Role of chlorophyll.	
45.	P.5	a) Simple fracture/Compound fracture.	Natural fracture.	Correct type of fracture.	· Use the First Aid box at school to
		b) Bandage/Splints/Short sticks/ Tourniquet.	Razor blade.	First Aid kit for fractures.	show the learners the First Aid kit
		c) To ensure circulation of blood/ To ensure that the nerson is still alive.	To pump blood.	Circulation of blood.	

46.	P.4	a) Keeps the body healthy/Protects the body from deficiency diseases.	Prevents death.	Importance of a balanced diet.	Go through the components of a balanced diet and their
	***************************************	b) Carbohydrates/Vitamins/Fats and oils/Roughages/Mineral salts/Water.	Pawpaw.	Classes of food.	importance. Discuss the signs and symptoms of
	la la	c) Little brown hair/Swollen neck/ Emaciated body/Swollen hands and legs/ Moon face/Old looking face/Stunted growth.	Sickness.	Indicators of malnutrition.	different deficiency diseases.
47.	P.5	a) Water and sanitation.	Personal hygiene.	Correct name.	- Go through the principles and
	W74 Tre	b) Immunisation/Family planning/ Maternal and child health care.	Food and nutritionOral hygiene.	Accept one which isn't part	elements of PHC in a detailed form. Also revise about the roles of
		c) After every meal.	In the morning.	Right time for brushing,	individuals, families and
		d) Boosts the immunity of the body/	Provides energy.	Response should be about	communities in promoting PHC.
		Strengthens the body immunity.		immunity boost.	
48.	P.5	a) Pregnant women/Breastfeeding mother/Weaning babies/The sick.	Very old people.	Exclude the elderly.	- Have a detailed discussion about
		b) By feeding them on a balanced diet/By	By feeding them.	Ways of caring for very old	special needs
		taking them for regular medical check-		people.	
		up/By feeding them in time/By washing			
		for them clothes.			
49	P.3	a) Mountains/air/wind/sun/water/soil.	Trees	Non - living components.	- Go through the comment of
		b) By pruning/watering/spraying using pesticides/By mulching garden.	By planting.	Care for plants.	environment and their
20.	P.4	a) Water snail/Garden snail.	Slug	Accept snail.	Tolor of the
		b) Cholera/diarrhoea/Dysentery/ Trachoma/Typhoid.	Malaria	Diseases spread by a	detailed discussion about common
		c) Through bites/Biting.	Using the hairy body.	Transmission of germs by a	vectors and germs.
51.	P.1	(i) nose	(i) tongre	osquito.	
		(ii) tongue	(i) ear	Correct sense organs	Go through the uses of different
		(iii) ear (iv) skin	(iii) skin (iv) nose	reaction of the season	body parts.
25.	· P.2	a) (i) By biting/Through biting the enemy/Spitting venom	(i) By slithering.	(i) Protection in a snake.	
			(II) By changing colour.		

THE SIPRO PRIMARY FIVE INTEGRATED SCIENCE MID TERM TWO MARKING GUIDE - 2022

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- Help the learners know the different characteristics of	different minerals.			- Practically carry out the methods		details.					contact - Discuss the characteristics and		Citaliges in a detailed way.			20 mg/s	sted - Use the school garden to discuss	about aminus miss be-		
(ii) Protection in a millipede.	Reason for animal	movement.		Correct name.	A mixture of a liquid and a	solid.	Correct name.	Activity that involves	filtration.		Prevention of metal contact	with oxygen and water.		Irreversible change.	Examples of chemical	changes.	Crops that are harvested	once.	Care for crops.	
	To enjoy life.			Decantation.	Seeds with husks.		Filtered water.	Drinking soda.			By warming metals.			Physical change.	Freezing.		Coffee	7	By washing/By eating them.	
(ii) By curling/coiling/producing a bad smell.	b) To look for water/food and water/For	protection/To look for their young ones/	To look for shelter.	a) Filtration method.	b) Fruit juice with seeds/Fermented juice	with sorghum/Water with stones.	c) Filtrate.	d) Preparing fruit juice/Preparing clean	water/Preparing fermented alcohol/	Preparing tea.	a) By painting metals/By oiling metals/By	galvanizing metals/By enamelling metals/	By keeping them in a dry place.	b) Chemical change.	c) Fermentation/Digestion/Burning/	Decomposition/Ripening of fruits.	a) Cotton/Beans/Groundnuts/Cowpeas/	Maize/Sorghum.	b) By pruning/Staking/Mulching/	Watering
	,			P.5							P.5						P.4			
				53.	,						54.	_	_	1		_	55.			