

***Time allocated 2 hours 15 minutes***



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**READ THE FOLLOWING INSTRUCTIONS CAREFULLY**

1. This paper has **two** sections: A and B. Section A has **40** questions (**40 Marks**) and Section B has **15** questions. (**60 Marks**)
  2. Answer **ALL** questions. All answers to both sections A and B must be written in the spaces provided.
  3. All answers **must** be written using a **blue or black ball point pen or ink**. Any work written in pencil will **not** be marked.
  4. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
  5. Do not fill anything in the table indicated

FOR EXAMINERS' USE ONLY		
QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

APPROVED:  
~~Mr. S. S. Nair~~  
Consultant  
Integrated Science Department (PEC)

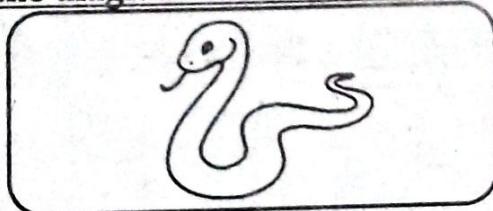
PUBLISHERS OF -

THE PRIME; SCHEMING FRAME WORKS, PUPIL'S WORKBOOKS, LESSON COURSE BOOKS, NO IDAY PACKAGES  
LEARNING GAMES, REVISION BOOKS, PLE ANALYSIS REPORTS AND MANY MORE.

**Section A (40 Marks)**

1. Name the main source of heat and light in our environment.  
\_\_\_\_\_
2. How are plants useful in a school compound?  
\_\_\_\_\_
3. Why do people brush their teeth every after a meal?  
\_\_\_\_\_
4. State any one non-living component of environment.  
\_\_\_\_\_
5. How is food eaten useful in our body?  
\_\_\_\_\_
6. Name any one item we use to keep our body clean.  
\_\_\_\_\_

**Study the diagram below and use it to answer question 7.**



7. How does the animal shown in the above diagram protect itself?  
\_\_\_\_\_
8. Give any one reason why farmers paint their garden tools.  
\_\_\_\_\_
9. State any one danger caused by too much rainfall in our environment.  
\_\_\_\_\_
10. Name the body organ used for thinking and reasoning.  
\_\_\_\_\_
11. How is wind useful to a crop farmer?  
\_\_\_\_\_
12. Name the item below used to keep sanitation shown in the diagram below.



13. State one use of leaves to plants.

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14. Name any one place where people get food in our environment.

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15. How is the sun useful during rain formation?

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16. Why are people advised to bath daily?

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17. Name the body organ responsible for pumping blood around the body.

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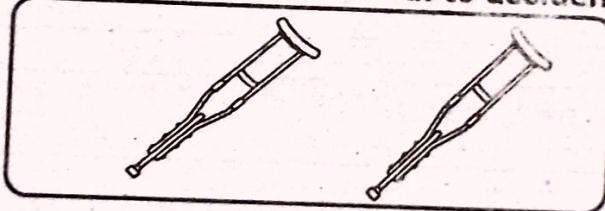
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18. Which instrument is used to show the direction of wind?

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19. How are the items below useful to accident victims?



20. Why do farmers always plant their crops during wet season?

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21. How are shadows useful in our environment?

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22. Give one function of a tongue when eating.

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23. How can a P.4 pupil keep his/her lungs in good working order?

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24. Name the place in a home where people go to dispose faeces and urine.

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25. Give any one method of controlling malaria in our home.

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26. Why are rat guards important on a granary?

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27. Name the type of weather that helps a farmer to dry harvested crops.

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28. Mention any one class of food that forms a balanced diet.

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29. Why do people wash their hands before eating food?

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30. Name the highest cloud in the sky.

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31. Why do people cut their finger nails short?

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32. State any one activity done by people to protect themselves against COVID-19.

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33. Name any one item made from palm leaves.

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34. Give any one characteristic of living things.

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35. How is a nursery bed useful to a crop farmer?

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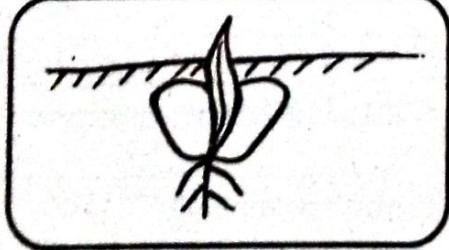
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36. Name any one activity a P.4 child can do to keep his class clean.

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37. Name the type of germination shown in the diagram below.

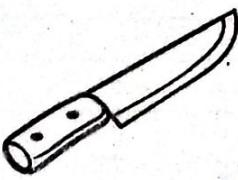


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38. State any one way how people can save electricity in their homes.

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39. Name the natural habitat of white ants.
40. Apart from eggs, name any one other product from domestic birds.
41. (a) What are *domestic animals*? Section B (60 Marks)
- (b) Name any one domestic animal that protects our homes.
- (c) Apart from protection, give two other reasons why people keep domestic animals.
- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_
42. (a) Identify the *instrument used to measure amount of sun shine received in a place*.
- (b) Name the electricity produced by power from the sun.
- (c) State any one danger caused by too much sunshine in our environment.
- (d) How can a crop farmer manage drought during crop growing?
43. The diagram shows some of the items that cause accidents at our homes.
- |   |  |
|---|--|
| A   | B  |
|  |  |
- (a) Name the items shown above.
- (i) A \_\_\_\_\_ (ii) B \_\_\_\_\_
- (b) State the accident that can be caused by the above items.
- (c) Give any one effect of accidents to people in our environment.

44. (a) Mention any two diseases that spread through drinking contaminated water.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Why are we advised to keep water for drinking in clean containers?

(c) How does boiling of water for drinking control diseases?

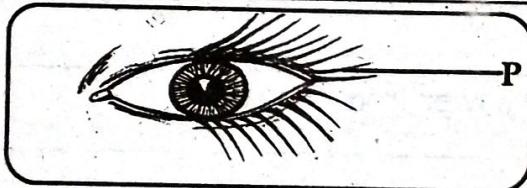
45. (a) Name any one sanitary component of a clean home.

(b) Why is it important to keep good sanitation at home?

(c) Mention any two items used to promote sanitation in a home.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

46. Study the diagram below and answer questions that follow.



(a) Name the body organ shown in the above diagram.

(b) Name the hairs marked P.

(c) Give any one disease that affects the above organ.

(d) Mention any one way how people can care for the above organ.

47. Match the following correctly.

A

- (i) Ears
- (ii) Nose
- (iii) Fingers
- (iv) Skin

B

- smelling
- hearing
- feeling
- touching

- (i) Ears
- (ii) Nose
- (iii) Fingers
- (iv) Skin

48. (a) What is **energy**?

(b) Mention any **one** example of wood fuel in our homes.

(c) State any **two** uses of electricity at home.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

49. (a) Name any **one** component of soil.

(b) Give **one** way how soil is formed in the environment.

(c) Name the type of soil used to make tiles.

(d) How does mulching control soil erosion?

50. (a) Give any **two** common pests that affect crops.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

(b) State any **one** sign on crops affected by pests.

(c) Mention any **one** method of controlling pests in the garden.

51. (a) Name any **one** plant that climbs others.

(b) Why do plants climb others?

(c) State any **two** ways how plants climb others.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

52. A season is a period of time when a particular type of weather is on.

(a) Name any one type of season.

(b) Mention any two activities done by farmers in the type of season you have mentioned in (a) above.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) Name the garden tool used for harvesting cereal crops.

53. Complete the table below correctly.

Type of teeth	Adaptation	Function
Incisor	chisel shaped	(i) _____
(ii) _____	cone shaped	tearing food.
Premolars	(iii) _____	grinding food.
(iv) _____	have three roots	chewing food.

54. (a) What is the difference between a **vector** and a **germ**?

(b) How does a mosquito spread germs?

(c) Name the vectors that spread diseases below;

(i) Trachoma

(ii) Bilharzicisis

55. (a) Name any one crop that grow well in swampy-areas.

(b) Write down any two conditions necessary for germination.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

(c) How is water useful during germination?

**THE PRIME P.4 INTEGRATED SCIENCE MID TERM II MARKING GUIDE 2023.**

<b>NO</b>	<b>Answer</b>	<b>Section A (40 Marks)</b>					
		<b>Competence</b>	<b>Topic/Sub-topic: Curr Pg.</b>	<b>Life skills</b>	<b>Values</b>	<b>Class S</b>	<b>Level L</b>
1.	▪ Sun						
2.	▪ Provides shade/ control soil erosion/ provide fruits.	States importance of the sun.	Air and the sun	Critical thinking	Concern	P.3	K
3.	▪ To prevent tooth decay/ to remove food particles in the teeth.	Gives uses of plants in a compound.	Plant life	Problem solving	Acceptance	P.4	A
4.	▪ Water/ soil/ air.	Gives reasons of brushing teeth. States components of environment.	The teeth Environment	Problem solving Empathy	Concern Appreciation	P.4 P.1	C A
5.	▪ Builds the body/ repairs worn out body cells/ keeps the body healthy/gives the body energy.	Gives values of food in the body.	Our food.	Critical thinking	concern	P.3	K
6.	▪ Tooth brush/ sponge/ tooth paste/soap/ water/pumice stone.	Names items used to clean body.	Personal hygiene	Creative thinking	Acceptance	P.4	K
7.	▪ By biting/ by spitting venom on the enemy.	States how animals move.	Environment	Decision making	Concern	P.2	A
8.	▪ To prevent them from rusting.	States importance of painting garden tools.	Crop growing	Coping with stress	Appreciation	P.4	C
9.	▪ Causes floods/ leads to landslides/ destroys crops/ destroy properties.	Gives dangers caused by too much rainfall.	Changes in environment	Problem solving	Responsibility	P.3	C
10.	▪ The brain/ brain.	Names body organs.	The human body.	Critical thinking	Appreciation	P.4	A
11.	▪ Helps him in winnowing/ pollinates farmers crops.	States importance of wind.	Weather changes.	Creative thinking	Appreciation	P.4	C
12.	▪ dustbin.	Gives examples of sanitary items.	Sanitation	Problem solving	Acceptance	P.4	K
13.	▪ Leaves make food for the plant/ used for transpiration/ used for breathing/ used for propagation.	Gives uses of leaves to plants.	Plant life.	Critical thinking	Appreciation	P.4	
14.	▪ Garden/ water/ shops/ trees.	Names places where people get food.	Food and nutrition	Creative thinking	Acceptance	P.1	A
15.	▪ The sun heats water to cause evaporation.	Mentions importance of sun during rain cycle.	Water and cycle.	Creative thinking	Concern	P.3	C
16.	▪ To prevent skin diseases/ to prevent bad body smell.	Gives importance of bathing daily.	Personal hygiene.	Decision making	Patience	P.4	A
17.	▪ The heart/ heart.	Names body organs.	Human body and health.	Coping with stress	Care	P.4	A
18.	▪ Wind vane.	Gives importance of weather instruments.	Weather changes.	Creative thinking	Concern	P.4	K
19.	▪ Help casualties with fractured limbs to walk.	States uses of crutches.	Accidents and first aid.	Decision making	Appreciation	P.1	A
20.	▪ There is enough water for seeds to germinate.	Names activities done in a season.	Crop growing	Problem solving	Acceptance	P.4	C
21.	▪ Provide shade/ tells time/ shows direction.	Gives importance of shadows.	Air and the sun.	Creative thinking	Appreciation	P.3	A
22.	▪ For tasting food/ rolls food into bolus/ helps people in talking.	States uses of a tongue.	Human body and health.	Critical thinking	Concern	P.2	C
23.	▪ Avoid tobacco smoking/ do regular physical exercises/ going for immunisation/ avoid dusty places/ isolate people with tuberculosis.	Mentions ways of caring for lungs.	Human body organs.	Coping with stress	Care	P.4	A
24.	▪ Latrine/ clean toilet.	Names a place for disposal of faeces and urine.	Sanitation	Decision making	Appreciation	P.2	K

25	▪ Sleeping under mosquito nets/ draining stagnant water in a compound/ pouring oil on top of stagnant water/ keeping fish in ponds/ spraying adult mosquitoes using insecticides.	Gives methods of controlling malaria.	Health in our sub - county.	Creative thinking	Concern	P.3
26	▪ They prevent rats from entering the granary.	Gives importance of rat guards.	Crop growing	Problem solving	Patience	P.4
27	▪ Sunny weather.	Gives type of weather that dry crops.	Weather	Problem solving	Patience	P.1
28	▪ Proteins/ vitamins/carbohydrates/ fats and oils/ roughages/ mineral salts.	Names food that forms a balanced diet.	Our food	Empathy	Concern	P.2
29	▪ To remove germs and dirt/ to prevent faecal diseases.	Gives importance of washing hands.	Good feeding	Negotiation	Acceptance	P.2
30	▪ Cirrus clouds.	Names the highest cloud.	Weather	Coping with emotions.	Sympathy.	P.4
31	▪ To remove hiding/ breeding places of germs/ to prevent them from causing injuries our body.	States values of cutting finger nails.	Personal hygiene.	Decision making	Acceptance	P.3
32	▪ Wearing masks/regular washing of hands/ avoid over crowded places.	States ways of preventing covid 19.	Human health	Problem solving	Concern	A
33	▪ Mats/ hats/ bags.	Names items made from palm leaves.	Basic technology.	Decision making	Acceptance	P.3
34	▪ They grow/ breathe/ respire/ feed/ move/ respond to stimuli.	Gives characteristics of living things.	Plant life	Empathy	Sympathy.	P.4
35	▪ Gives time a farmer to prepare the garden/ helps a farmer in proper selection of seedlings/ helps in proper care of seedlings.	Gives importance of nursery bed.	Crop growing	Decision making	Responsibility	P.4
36	▪ Sweeping/ mopping/ removing cobwebs/ dusting tables.	Names ways of keeping class clean.	Sanitation	Problem solving	Care	P.2
37	▪ Hypogea germination.	Names types of germination.	Plant life	Critical thinking	Fluency	P.4
38	▪ Using energy saving bulbs/ switching off light when not needed/ using other alternative source of energy e.g solar energy.	States ways of saving electricity.	Resources in our sub - county.	Decision making	Concern	P.4
39	▪ Ant hills.	Names habitats of ants.	Animal homes.	Creative thinking	Care	P.3
40	▪ Meat/ feathers.	Names products from animals.	Animals and plants.	Problem solving	Concern	P.4

**Section B (60 Marks)**

41.	(a) These are animals kept at home. (b) dog. (c) To get milk/ to get meat/ to sell and get money.	Gives importance of domestic animals.	Animal life.	Creative thinking	Acceptance	P.3
42	(a) Sunshine recorder. (b) Solar electricity. (c) Causes drought/ destroys crops/ dries waterbodies/ leads to death of animals. (d) Watering crops/ mulching the garden.	States dangers caused by sun	Weather	Critical thinking	patience	P.4
43	(a) A - Knife                           B - broken bottle. (b) cuts. (c) Causes death/ causes fractures/ leads to loss of some body parts/ causes lameness.	Mentions effects of accidents to people.	Water and rain.	Coping with stress Problem solving	Care	P.4
44	(a) Diarrhoea/dysentery/ typhoid/ cholera/ polio/ hepatitis. (b) To prevent contamination of the water. (c) Boiling kills germs in water.	Mentions common water borne diseases.	Water and rain.	Problem solving	Care	P.2

45	(a) Latrine/kitchen/ bathroom/ rubbish pit/ dustbin. (b) Prevents spread of communicable diseases/ prevents bad smell in the environment/ control disease vectors. (c) soap/ water/ rags/ buckets/ basins/slasher/broom/panga/scrubbing brush.	Gives importance of keeping good sanitation.	Sanitation	Creative thinking	Appreciation
46	(a) Eye. (b) Eye lashes. (c) Trachoma/ night blindness/ conjunctivitis/ river blindness. (d) Washing eyes regularly/visit eye specialists in case of any problem/don't rub your eyes with dirty fingers/ avoid reading in dim light/ avoid exposing your eyes directly to rays of the sun.	Names ways of caring for the eyes.	Human body	Critical thinking	Care
47	(i) Ears - hearing (ii) Nose - smelling (iii) Fingers - touching (iv) Skin - feeling.		Human body	Critical thinking	Care
48	(a) Energy is the ability to do work. (b) firewood/charcoal. (c) For cooking/ ironing/ lighting/ running appliances like radios, computers and televisions.	Gives uses of energy resources in our homes.	Energy resource	Problem solving	Appreciation
49	(a) Air/ water/ rock particles/ living organism/ humus. (b) By weathering/ decomposition. (c) Clay (d) It covers the top soil/ reduces the speed of running water.	Gives components of soil.	Soil	Decision making	Responsibility
50	(a) Monkeys/ rats/ caterpillar/ locusts/ army worm/ aphids/ squirrels/ maize weevils/ termites. (b) Damaged leaves/ damaged tubers/ damaged fruits/ holes in leaves. (c) Use of scarecrows/ use of crop rotation/ regular weeding/ use of traps/ physical guarding/ use of predators/ spraying them with pesticides.	Mentions methods of controlling pests.	Crop growing	Critical thinking	Acceptance.
51	(a) passion fruit/ pumpkins/ cowpeas/ cucumber/some beans/morning glories/rose plant. (b) To get support/ to get sunlight. (c) By use of tendrils/ use of hooks/ by <del>twinning</del> <i>twinning</i>	Gives reasons why plants climb others.	Plant life.	Creative thinking	Responsibility
52	(a) Dry season/ wet season. (b) weeding/ planting/ digging/thinning/ mulching/pruning. (c) sickle/the sickle.	Outlines activities done in different seasons.	Measures	Working together	Concern
53	(i) cutting/ biting food. (ii) canine teeth. (iii) flat and ridged. (iv) molars.	Names types of teeth and their functions.	The teeth.	Critical thinking	Appreciation
54	(a) Vectors spread disease germs while germs cause diseases. (b) Through bites. (c) (i) Trachoma - housefly      (ii) Bilharzicisis - water snail.	Gives diseases spread by vectors.	Health in our sub - county (vectors and germs).	Problem solving	Care
55	(a) Rice/ white yams. (b) water/ warmth/ oxygen. (c) It softens the seed coat/ it dissolves food in the cotyledon.	States conditions necessary for germination.	Plant life	Creative thinking	Working together