

THE **SIPRO** MID-TERM III EXAMINATIONS 2022

SUBJECT : INTEGRATED SCIENCE

CLASS : PRIMARY SIX

DURATION : 2 hours 15 minutes

Name : _____

School : _____

District : _____

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).
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.
6. 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 boxes indicated.

"FOR EXAMINER'S USE ONLY"

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PAGES	MARKS	INITIALS
Page 1		
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
Page 9		
Total		

Please turn over



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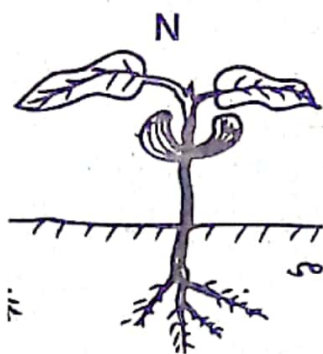
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SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

1. Name **one** root crop propagated using stem cuttings.
2. Which component of the soil is a raw material for photosynthesis?
3. Mention any **one** skin disease caused by poor personal hygiene.
4. State the importance of a barometer at a weather station.
5. How are long fingernails a danger to a P.6 child's health?

The diagram below is of two flowering plants. Study and use them to answer questions 6 and 7.



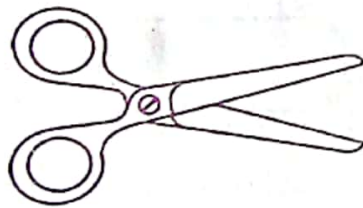
- 6 To which group of flowering plants does plant **M** belong?

How are the seeds of plant **M** different from those of plant **N**?

8. Name any **one** vector that spreads germs using its hairy body.
9. In which state of matter does heat travel by conduction?
10. Apart from babies, name **one** other example of vulnerable groups of people.
11. Name any **one** method used for administering vaccines to a newly born baby.
12. Give any **one** reason why farmers castrate their male animals.

13. What term is used to mean the amount of matter an object contains?
14. Mention any **one** thing that happens to food in the mouth during digestion.
15. State any **one** activity that one can do to make dirty water clean before washing clothes.
16. Name the substance from plants used by worker bees to repair the hive.
17. Mention the method of soil formation that involves the action of bacteria.
18. Why is carbon dioxide used in the preservation of bottled drinks?
19. State **one** way of controlling rusting in metallic tools.
20. Give any **one** advantage of regular weeding in a school garden?
21. Joan's rabbits had wounds, itching and drooping ears. Which disease were the rabbits suffering from?
22. Name **one** foodstuff that can lead to tapeworm infestations when eaten undercooked.
23. How does regular brushing of teeth control the spread of tooth decay?
24. How are mushrooms similar to ferns in the way they reproduce?

The diagram below shows a first Aid Kit. Study and use it to answer questions 25 and 26.



25. Name the First Aid kit shown in the diagram above.
26. How is the First Aid kit above useful in administering of First Aid?
27. State the main reason why cattle keepers spend little money on treating local breeds of cattle.

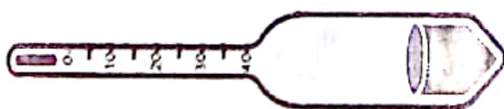


28. How is reproduction in reptiles similar to that in birds?
29. Write down any **one** component of air that supports plant life.
30. Mention the fossil fuel that exists in solid form.
31. Name **one** type of weather that enables one to dry washed clothes.
32. Mention any **one** system of keeping poultry where birds are not allowed to move freely.
33. State any **one** danger of sharing habitats with domestic animals.
34. Name the form of energy that changes water to vapour.
35. How is food storage in Irish potatoes similar to that of white yams?
36. Mention any **one** natural cause of changes which leads to destruction of people's houses.
37. How does regular burning of rubbish control the spread of diarrhoeal diseases?

The diagrams below are of instruments used on dairy farm. Study and use them to answer questions 38 and 39.



X



Y

38. Name the farm equipment marked X.
39. How is instrument Y important when detecting the quality of milk on a dairy farm?
40. Give **one** reason why crop farmers mulch their garden.



SECTION B: 60 MARKS

Questions 41 to 44 carry **four** marks each

41. (a) Mention any **two** body organs cleaned by regular bathing.

(i) _____

(ii) _____

(b) State any **two** ways of caring for the above body organs apart from regular bathing.

(i) _____

(ii) _____

42. (a) State the basic units for measuring mass and weight.

(i) mass : _____

(ii) weight: _____

(b) Why is the volume of a nail measured using displacement method?

(c) State the reason why a ball thrown into the sky falls back onto the ground.

43. (a) Name the deficiency disease with the following signs:

(i) bleeding gums and poor healing of wounds _____

(ii) bow-shaped limbs _____

(b) Mention any **one** cause of poor feeding in a home.

(c) Give any **one** way of controlling poor feeding in a home.

44. (a) Name any **two** examples of legumes grown during crop rotation.

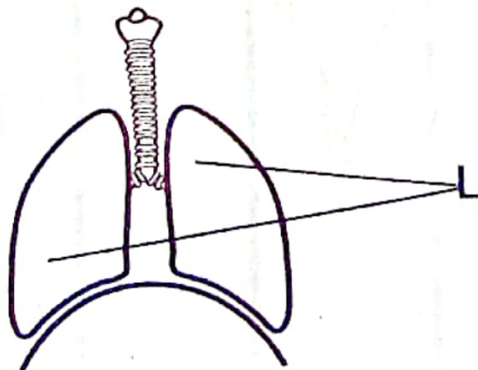
(i) _____

(ii) _____

(b) State the main reason why legumes are included in crop rotation.

(c) Why are legumes grouped under annual crops?

45. The diagram below is of one of the body organs. Study and use it to answer the questions about it.



(a) Name the body organs in the diagram above marked with letter L.

(b) Give the function of the above named organ in the human body.

(c) Apart from the above organ, name any other **two** internal body organs in humans.

(i) _____

(ii) _____

46. (a) Mention any **two** types of poultry.

(i) _____

(ii) _____

(b) How does a poultry farmer benefit from a farmer who grows maize crops?

(c) Give **one** way of improving egg production on a poultry farm of layers.

47. (a) Name the part of the digestive system which:-

(i) produces bile juice _____

(ii) produces pancreatic juice _____

(b) Give any **one** reason why food should be chewed properly before swallowing.

(c) Mention any **one** disease of the digestive system.

48. (a) Mention any **two** examples of social insects.

(i) _____

(ii) _____

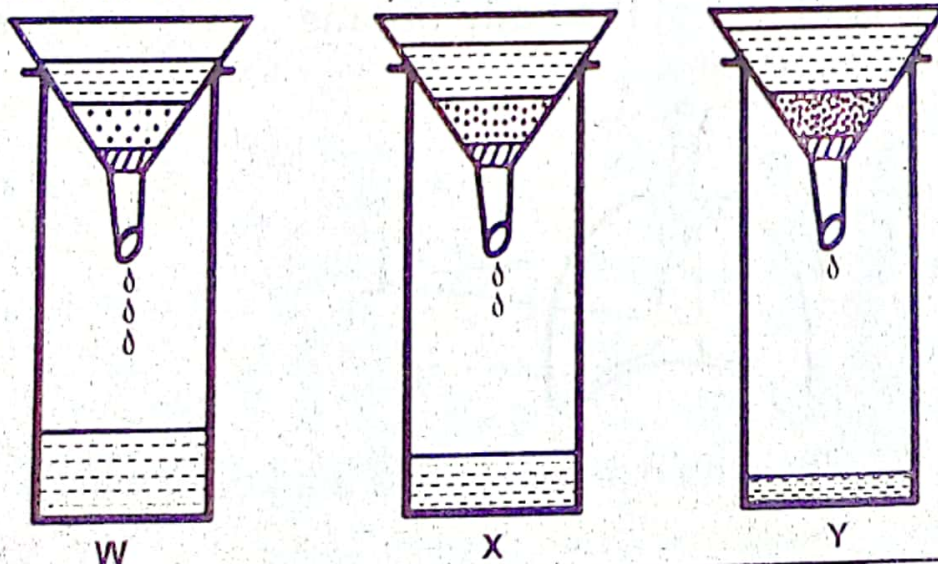
(b) Write **two** uses of social insects to people.

(i) _____

(ii) _____

49. The diagram below shows an experiment on the three types of soil.

Use it to answer the questions that follow.



- (a) Identify the type of soil labelled X and Y.
 (i) X _____ (ii) Y _____
 (b) Give **one** characteristic of the type of soil labelled X.

 (c) Mention **one** use of soil W to people.

50. Given the animals in lists A, B and C. Study and use them to answer the questions that follow.

A	B	C
tortoise	cat	housefly
snail	bat	centipede
oyster	dove	tick
terrapin	elephant	crab

- (a) Which animal is different from the rest in list B in terms of reproduction?

 (b) How are the animals in list A similar in the way they defend themselves against enemies?

 (c) Which group of invertebrates is represented in group C?

 (d) To which group of vertebrates does a tortoise belong?

51. (a) Mention any **two** systems of keeping cattle.

- (i) _____
 (ii) _____

(b) Give any **two** activities farmers can do to control tick borne diseases on a cattle farm.

- (i) _____
 (ii) _____

52. (a) Mention any **two** common examples of conifers.

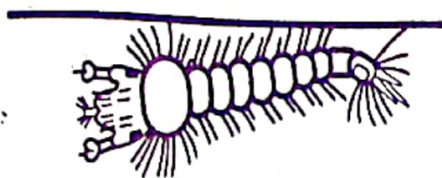
- (i) _____
 (ii) _____

(b) State any **two** economic importance of conifers to farmers.

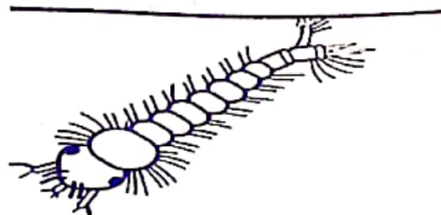
- (i) _____
 (ii) _____



53. The diagrams below are of mosquito wrigglers. Study and use them to answer the questions that follow.



X



Y

(a) Name the type of mosquito that develops from wriggler marked:-

(i) X _____

(ii) Y _____

(b) How do the above mosquitoes spread germs among people?

(c) Mention any **one** way of controlling the spread of mosquito borne diseases.

54. (a) Give any **two** elements of Primary Health Care.

(i) _____

(ii) _____

(b) Mention any **two** activities a P.6 child can do to keep a school kitchen clean.

(i) _____

(ii) _____

55. Match the terms in list A to their meaning in list B.

A

kidding

lambing

kindling

calving

B

giving birth in sheep

giving birth in cows

giving birth in goats

giving birth in rabbits

i) kidding _____

ii) lambing _____

iii) kindling _____

iv) calving _____