

THE SIPRO PRE - PLE SET III 2024

INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.

EMIS No.	Personal No.

Candidate's Name: _____

Candidate's Signature: _____

EMIS No. _____

District: ID _____

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"

For Examiner's Use Only;

Qn No	MARKS	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
Total		

Please turn over



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SECTION A : 40 MARKS

Questions 1 to 40 carry one mark each.

1. How does heat travel through solids?

2. State what happens to the diaphragm when one breathes in.

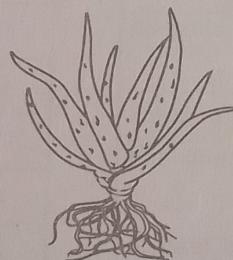
3. In which way are plants and animals replaced naturally in the environment?

4. Give any **one** other importance of clouds in the environment, apart from providing us with rainfall.

5. Name any **one** force a pulley overcomes when raising a load up a storeyed building.

6. Why do worker bees visit flowers?

The diagram below shows a plant and its root system. Study and use it to answer question 7.



7. To which group of crops do plants with such a root system belong?

8. Why is an insect regarded to be an arthropod?

9. Give any **one** way in which individuals can protect themselves from diseases caused by drinking contaminated water.

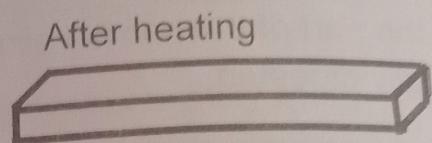
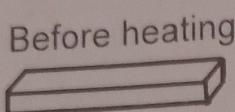


10. Why is scrubbing an important step in the process of cleaning utensils?

11. State the disadvantage of pouring old engine oil in a pit of an ordinary pit latrine.

12. Mention any **one** principle of Primary Health Care.

The diagrams below show the metallic bars before and after heating. Study and use them to answer questions 13 and 14.



13. How does heat go through the metallic bars shown above?

14. Why does the metal become longer after heating?

15. Give the importance of water in the making of compost manure.

16. In which way is a child affected when their father is an active smoker?

17. State any **one** benefit of good posture to the human body.

18. Why do most farmers in war zone areas advised to grow annual crops?

19. Name the part of the ear that plays a similar role as the optic nerve in the eye.

20. How is the filament of an electric bulb modified in order to fit the glass envelope?



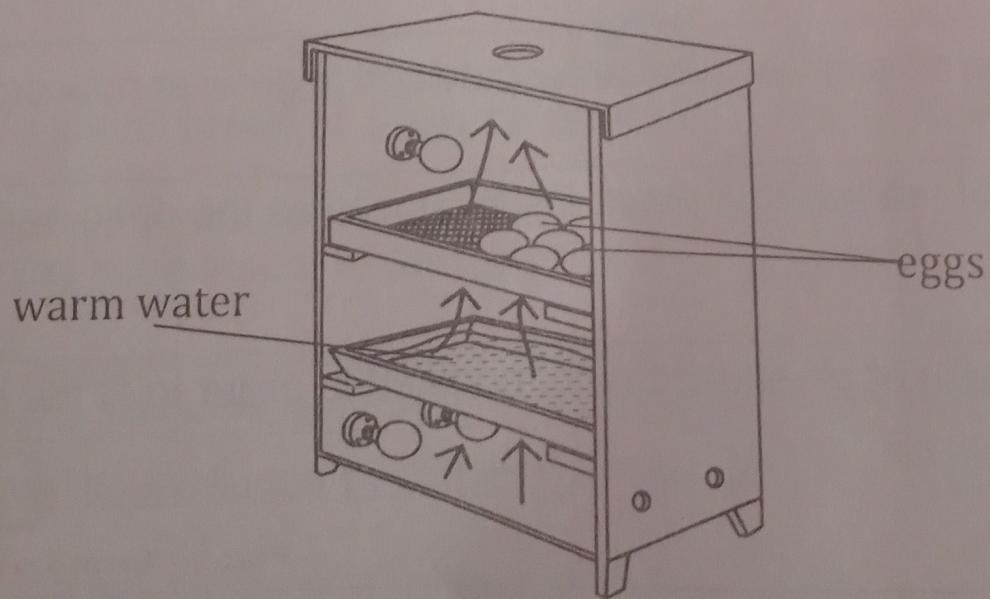
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P.7 PRE - PLE SET III INTEGRATED SCIENCE - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

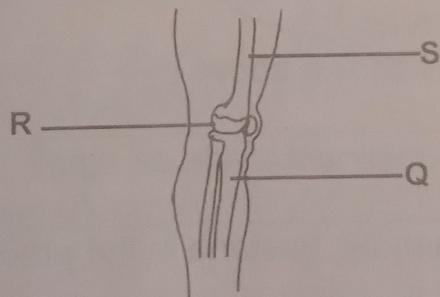
21. Give **one** way reflected sound is useful to a bat.
22. Name the part of air needed by a school cook to light a stove.
23. Give any **one** way of controlling external parasites in cattle.
24. How is the role of transpiration in plants similar to that of sweating in human beings?
25. How does a single fixed pulley make work easy for people?
26. Name the part of the human alimentary canal where fats are first chemically digested.
27. Apart from vasectomy, give the other permanent family planning method.
28. How does docking help to ease the mating process in a ewe?
29. How is Redwater similar to Anaplasmosis in the way they are spread among cattle?

The diagram below is of a type of incubation. Study and use it to answer questions 30 and 31.



30. Name the above type of incubation.
-
31. Why are commercial poultry farmers advised to use the above type of incubation?
-
32. Give **one** way of controlling floods in a given community.
-
33. Mention the common disease of rabbits that affects the ears.
-
34. State any **one** way plants can be harmful to people in the environment.
-
35. Apart from making alcohol, give **one** other activity where yeast is used.
-
36. State any **one** importance of wind to a fisherman who is fishing.
-
37. Mention any **one** material people use to make biogas in our community.
-
38. How are ferns similar to liverworts in terms of reproduction?
-

Below is a diagram showing part of the lower limb. Study and use it to answer questions 39 and 40.



39. Name the type of movable joint located at position labelled R.

40. How is bone S similar to bone Q in terms of structure?



SECTION B : 60 MARKS

Questions 41 to 55 carry four marks each.

41. a) Name the main organ of the respiratory system in the human body.

(b) Give the function of each of the following;

(i) cilia in the nose _____

(ii) epiglottis _____

(c) How is the trachea adapted to its function?

42. (a) Name the method of planting seeds that eases watering and weeding.

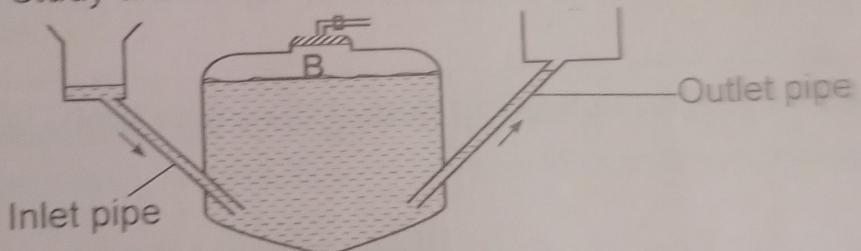
(b) Mention any two qualities of a seed that can germinate.

(i) _____

(ii) _____

(c) Give one advantage of vegetative propagation over the use of seeds in crop growing.

43. The diagram below shows an equipment used to make a certain gas fuel. Study and use it to answer the questions that follow.



(a) Name the equipment shown above.

(b) Why is the above equipment made air tight?

(c) State the role of anaerobic bacteria in the production of the above gas fuel.

(d) How is the use of the inlet pipe different from that of the outlet pipe?



44. a) Name the types of cattle that are kept for the following roles;
(i) producing meat _____
(ii) ploughing land _____
(b) Which cattle disease causes lameness, rotten hooves and pus in hooves?

(c) State **one** activity a livestock farmer can do to control the above disease in cattle.

45. a) State **one** importance of each of the following activities in agro-forestry:

(i) pruning _____
(ii) mulching _____

(b) Give any **two** proper methods of harvesting wood commonly used in agroforestry.

(i) _____
(ii) _____

46. Study and complete the table below correctly.

Vector	Disease
(a) _____	Bilharziasis
Jinja fly	(b) _____
(c) _____	Sleeping sickness
(d) _____	Rabies

47. a) Name the virus that causes AIDS.

(b) Give any **two** effects of AIDS on an individual.

(i) _____
(ii) _____
(c) How best can a primary seven child protect his sister from getting AIDS?



48. a) Give any two reasons why you would group a spider under arachnids.

(i) _____

(ii) _____

(b) Apart from spiders, give one other example of an arachnid.

(c) How is reproduction in ticks different from that in tsetse flies?

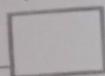
49. (a) What are essential drugs?

(b) State any two characteristics of essential drugs.

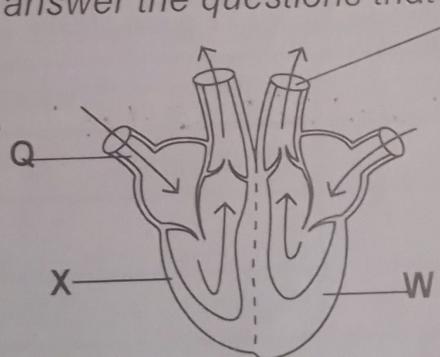
(i) _____

(ii) _____

(c) Mention any one factor that leads to drug misuse among people.



50. The diagram below shows a structure of the human heart. Study and use it to answer the questions that follow.



(a) Name the blood vessel marked with letter P.

(b) Which type of blood is carried by blood vessel labelled Q?

(c) Give a reason why muscle marked W of the heart is thicker than muscle marked X.



(d) Write **one** way the human heart can be kept in a good working condition.

51. In four sentences, describe the steps a P.7 child can do to clean their dirty uniform.

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____

52. Part A shows garden tools and part B shows their uses in a wrong order.

Part A: Garden tools	Part B : Their uses
garden line	turning manure
pick axe	digging rocky soil
forked hoe	breaking up rocks on hard ground
garden fork	measuring and marking plant beds

Select from the above the correct uses of the garden tools and write them below:

- (i) garden line : _____
- (ii) pick axe : _____
- (iii) forked hoe : _____
- (iv) garden fork : _____

53. (a) State any **one** characteristic common to all mammals.

(b) Give **one** example of each of the following groups of mammals:

- (i) flying mammals _____
- (ii) carnivorous mammals _____



(c) How are sea mammals able to maintain their body temperature in cold water?

54. (a) Mention any one external and internal parasites in goats;

(i) ecto parasite _____

(ii) endo parasite _____

(b) Give any one way of controlling the parasites mentioned in (a) above.

(i) ecto parasite _____

(ii) endo parasite _____

55. The items below, are used to prove that soil contains water. Arrange them to show how the experiment is carried out using the space provided. (4 marks)

