

# THE SIPRO P.7 MOCK II - 2024

## INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.

Random No.						Personal No.		

Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

School Random No. \_\_\_\_\_

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"

For Examiner's Use Only;

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

Please turn over



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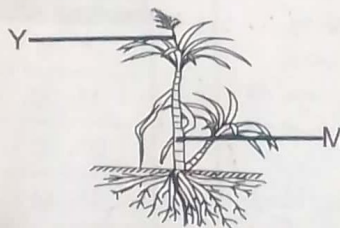
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## SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name the type of chicken that needs plenty of calcium in their diet.  
\_\_\_\_\_
2. Mention any **one** way of controlling weeds in the garden without using chemicals.  
\_\_\_\_\_
3. Apart from sunlight, give any other component of the environment that plants use to make starch.  
\_\_\_\_\_
4. How does planting of trees around a school control dangers of wind?  
\_\_\_\_\_
5. State the difference in the behaviour of a cork and a stone when placed on water.  
\_\_\_\_\_  
\_\_\_\_\_

The diagram below shows a flowering plant. Study and use it to answer questions 6 and 7.



6. Name the part labelled with letter Y.  
\_\_\_\_\_
7. State the function of part labelled with letter M.  
\_\_\_\_\_
8. Name the skeletal bone that protects the ovaries in the female reproductive system.  
\_\_\_\_\_
9. Mention any **one** way you can preserve meat locally at home.  
\_\_\_\_\_  
\_\_\_\_\_



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P.7 INTEGRATED SCIENCE MOCK II EXAMINATION - 2024

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



10. Give the difference between a bean plant and a mushroom in their way of feeding.

11. State any **one** piece of advice you can give to a mother whose baby has weak bones.

12. Give any **one** way people make use of heat insulators at home.

13. How can a P.7 candidate help a friend who is an alcoholic?

14. Which step in cleaning clothes prevents staining of light coloured clothes?

15. State the element of PHC promoted by performing regular physical exercises.

16. Mention any **one** sign of foot and mouth disease among cattle.

**The diagram below shows an equipment used in a poultry house. Study and use it to answer questions 17 and 18.**



17. Identify the equipment shown in the diagram above.

18. Give the use of the equipment shown in the diagram above in a deep litter house.

19. Mention any **one** disadvantage of using herding method of grazing cattle.



20. How does a candle making factory benefit from a nearby apiary?

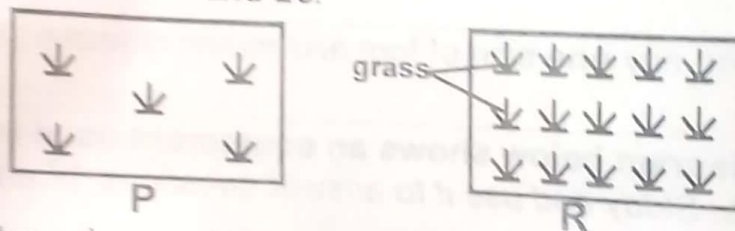
21. Why is soap an important item in the promotion of personal hygiene?

22. Apart from mushrooms, mention any one other example of a useful fungus.

23. Why is it not easy to light a matchstick on a wet matchbox?

24. State any one characteristic of images formed in a pinhole camera.

The diagram below shows two pieces of land. Study and use it to answer questions 25 and 26.



25. Which of the two pieces of land can be easily affected by soil erosion?

26. Give a suitable reason for your answer in (number 25) above.

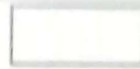
27. Name the type of movable joint that allows body movement in all directions.

28. Give any one way drug prescription is important to a patient.

29. Mention one environmental factor that affects the rate of transpiration in a plant.



30. How does a concave lens affect a parallel beam of light falling onto it?



The diagram below shows parts of an insect. Study and use it to answer questions 31 and 32.



31. Name the part labelled with letter Q.
32. Why does the above insect die when part marked M is covered with grease?
33. Which pulley system allows movement of the load in the same direction as the effort?
34. Write **one** example of a taste on the human tongue.
35. How does covering of food during cooking conserve charcoal at home?
36. Why does a person standing in a swimming pool appear shorter than their real height?
37. Name the longest and strongest bone found in the human body.
38. Why do crop farmers carry out staking in a tomato garden?
39. Write any **one** activity that a School Health Club can do to control the spread of cholera in case it breaks out in a school.





40. State any **one** reason why pregnant mothers are encouraged to feed on food rich in iron.

**SECTION B: 60 MARKS**

Questions 41 to 55 carry **four** marks each.

41. a) State any **two** effects of heat loss on matter.

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

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

- b) Mention any **two** ways in which people use the physical processes brought about due to heat loss in their daily life.

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

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

42. In the table below, list P shows ways of promoting PHC; and list Q shows the elements of PHC in their wrong order.

List P: Ways of promoting PHC	List Q: Elements of PHC
Feeding on a balanced diet	maternal and child health care
Caring for pregnant mothers	food and nutrition
Slashing tall grass in our compound	health education
Making people get informed on health issues	control of communicable diseases

Select from the table the correct elements of PHC and write them in the space provided below:

i) Feeding on a balanced diet: \_\_\_\_\_

(ii) Caring for pregnant mothers: \_\_\_\_\_

(iii) Slashing tall grass in our compound: \_\_\_\_\_

(iv) Making people get informed on health issues: \_\_\_\_\_

43. a) Name the type of germination common in most dicotyledonous seeds.

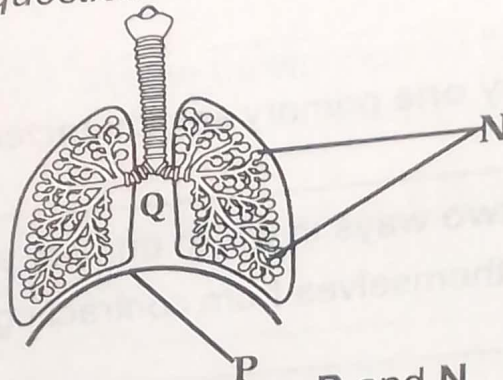
- b) Explain how the type of germination you have given in (a) above differs from that in monocotyledonous seeds. (02 marks)



- c) State any **one** factor that can make a seed fail to germinate when all the conditions necessary for germination are provided.



44. The diagram below is of a respiratory system. Study and use it to answer the questions that follow.



a) Name the parts labelled with letters **P** and **N**.

(i) **P** \_\_\_\_\_

(ii) **N** \_\_\_\_\_

b) Identify the body organ which is located at position labelled **Q**.

c) Name the habit that affects the proper working of the body system drawn above.

45. a) What is meant by the term "weeding"?

b) Give any **one** example of weeds in a banana garden.

c) In which **one** way do weeds affect crop yields?

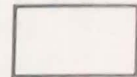
d) Mention any **one** way of controlling weeds in a banana garden.





46. A stone of mass **160 grammes** was dipped in a measuring cylinder full of water and the water level rose from 30cc to 50cc.
- a) Find the volume of the stone. (02 marks)

- b) Calculate the density of the stone. (02 marks)



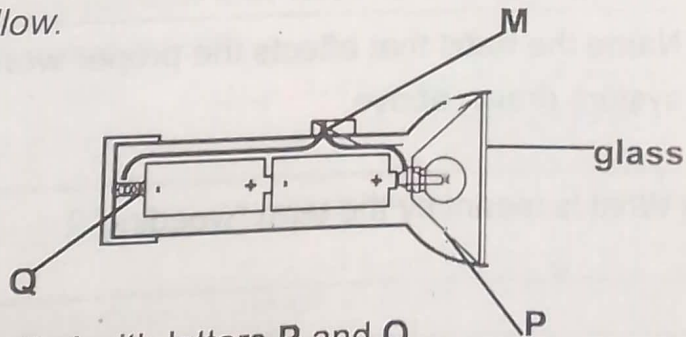
47. a) Mention any **one** primary sex characteristic in adolescent girls.

- b) State any **two** ways in which primary seven candidates can safeguard themselves from contracting HIV/AIDS.

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

- c) State any **one** effect of HIV/AIDS to the individual.

48. The diagram below is of a torch. Study and use it to answer the questions that follow.



- a) Name parts labelled with letters **P** and **Q**.

- (i) **P** \_\_\_\_\_
- (ii) **Q** \_\_\_\_\_

- b) Why is the front part of the above torch made of a transparent glass?





c) Give the function of part labelled with letter **M**.

49. a) State any **two** functional differences between an artery and a vein.

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

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

b) Which blood vessel carries oxygenated blood away from the heart?

c) Name any **one** body hormone transported by blood.

50. a) Apart from reducing the weight of a plant, give any other **two** advantages of pruning crops.

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

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

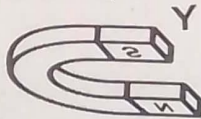
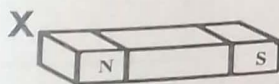
b) Name the **two** methods of planting crops.

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

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

51. The diagrams below show examples of artificial magnets.

Study and use them to answer the questions that follow.



a) Identify the artificial magnets labelled with letters **X** and **Y**.

i) **X** \_\_\_\_\_

ii) **Y** \_\_\_\_\_

b) Briefly explain how magnet labelled with letter **X** behaves when freely suspended in space.

c) Show the flow of magnetism on magnet marked with letter **Y**.

52. a) Name the part of the skin which performs the following roles:

i) producing sweat: \_\_\_\_\_

ii) sending touch impulses to the brain for interpretation:

b) Write any **two** health habits that promote the proper working of the skin.

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

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

53.a) State any **two** ways a crop farmer can use to know that the soil has lost its fertility.

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

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

b) Mention any **two** advantages of using organic manure to improve soil fertility.

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

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

54.a) How is a housefly adapted to spreading germs in the environment?

b) State any **two** examples of diseases spread by a housefly.

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

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

c) How can a primary seven candidate control the diseases spread by houseflies?

55. The diagram below shows a beak of a certain bird. Study and use it to answer the questions that follow.



a) Identify any **one** example of a bird with such a beak.

b) Name the type of food a bird with such a beak feeds on.

c) Explain the adaptation of such a beak to its function. (02 marks)

