

# 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:  
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**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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## **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.

---




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.

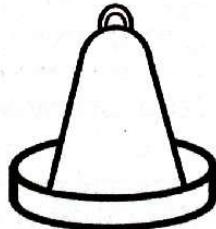
13. How can a P.7 candidate help a friend who is an alcoholic?

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?

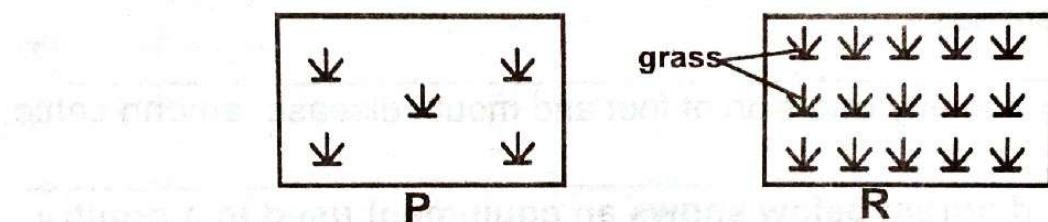
21. Why is soap an important item in the promotion of personal hygiene?

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.



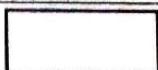
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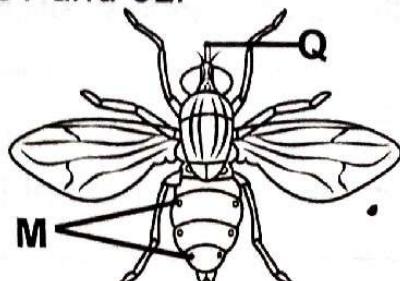
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30. How does a concave lens affect a parallel beam of light falling onto it?

---



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.

---

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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: \_\_\_\_\_

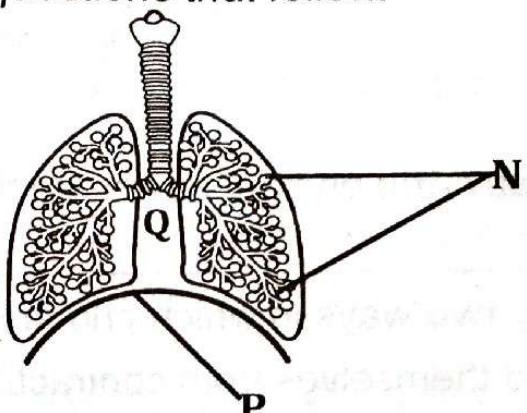
43. a) Name the type of germination common in most dicotyledonous seeds.

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.

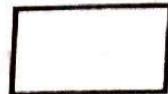
c) In which **one way** do weeds affect crop yields?

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)



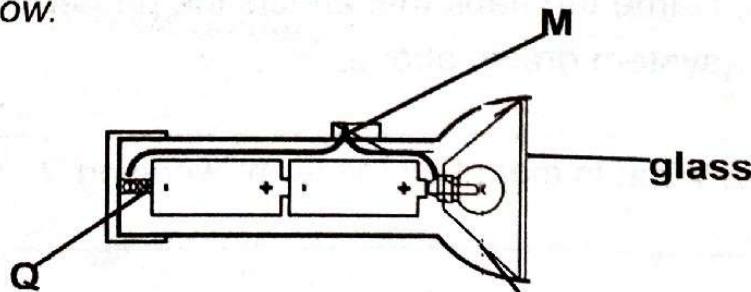
47. a) Mention any **one** primary sex characteristic in adolescent girls.

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?

\_\_\_\_\_

\_\_\_\_\_



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- 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)



# THE SIPRO END OF TERM II EXAMINATIONS 2024

SUBJECT : INTEGRATED SCIENCE  
CLASS : PRIMARY SIX  
DURATION : 2 hours 15 minutes

Name: \_\_\_\_\_

School: \_\_\_\_\_

District: \_\_\_\_\_

## READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

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2. Section **A** has **20** questions (**40 Marks**).
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## For Examiner's Use Only:

| PAGES  | MARKS | INITIALS |
|--------|-------|----------|
| Page 1 |       |          |
| Page 2 |       |          |
| Page 3 |       |          |
| Page 4 |       |          |
| Page 5 |       |          |
| Page 6 |       |          |
| Page 7 |       |          |
| Total  |       |          |

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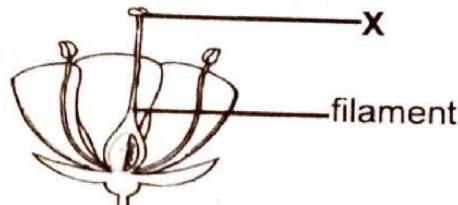
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## **SECTION A: 40 MARKS**

*Questions 1 to 40 carry one mark each.*

1. Give any **one** use of soil to people.
2. State the mode of fertilisation that amphibians undergo.

**The diagram below shows a flower. Study and use it to answer questions 3 and 4.**



3. What happens when pollen falls on part labelled with letter X?
4. Which type of pollination takes place in the flower drawn above?
5. Give any other class of food that provides people with energy apart from carbohydrates.
6. What is the function of red blood cells in the body?
7. State any **one** disadvantage of mulching.
8. Give any **one** reason why we should do physical exercises.

**The diagram below shows an example of a percussion musical instrument. Study and use it to answer question 9.**



9. How can the pitch of the above musical instrument be changed?
10. Give any **one** characteristic of floating objects.
11. State any **one** danger of cloudy weather in the environment.



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**P.6 INTEGRATED SCIENCE END OF TERM II EXAMINATIONS 2024**

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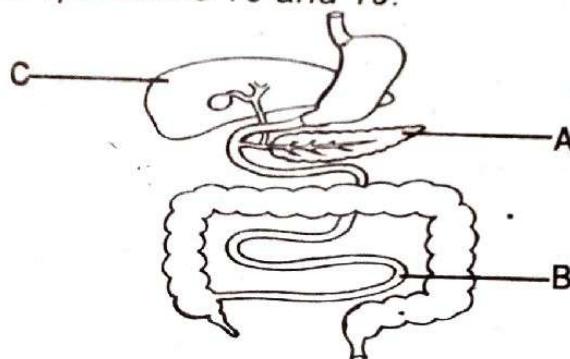
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12. State any **one** way you as a P.6 pupil can avoid smoking.
13. Mention any **one** bad eating habit.
14. Give the vaccine administered to infants to protect them against tuberculosis.
15. State any **one** way some plants can be harmful to people.
16. Name any **one** condition in the atmosphere necessary for photosynthesis in plants.
17. Mention any **one** way of drying utensils after washing them at home.

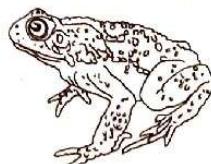
**The diagram below shows part of the digestive system. Study and use it to answer questions 18 and 19.**



18. Name the part labelled with letter **A**.
19. Which important process takes place in part labelled **B**?
20. Give any **one** harmful material in soil.
21. Write any **one** example of an insect pest that undergoes an incomplete lifecycle.
22. What is the gestation period of a cow?
23. Mention **one** effect of alcohol to the memory of an individual.
24. What are conductors of heat?

25. Name the type of germination where cotyledons obtain food from the endosperm.
- 
26. Mention any **one** example of a non-renewable resource in the environment.

**The diagram below shows a common animal. Study and use it to answer question 27.**



27. How are the hind legs of the above animal well adapted to their function?

- 
28. State any **one** method of controlling crop pests in the garden.

- 
29. Mention any **one** result of poor sanitation in an area.

- 
30. Give any **one** example of harmless fungi.

- 
31. State any **one** way of controlling the effects caused by mad dogs to people.

- 
32. Name the internal parasites that greatly damage the liver.

- 
33. Mention any **one** example of a bird that feeds on nectar.

- 
34. Give any **one** example of a physical change.

- 
35. State any **one** example of a common cause of accidents.

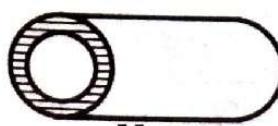
- 
36. Mention any **one** device used to reproduce stored sound.

- 
37. Which force of attraction exists between molecules of the same substances?

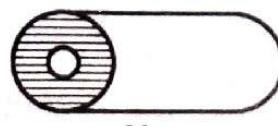
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38. Give a reason why weaning babies are considered as vulnerable people.



**The diagram below shows two different types of blood vessels.**  
Study and use them to answer questions 39 and 40.



M



N

39. Identify blood vessel labelled with letter M.

40. State any one structural difference between blood vessels marked M and N.

---

### SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

41. a) Give any two examples of exotic breeds of sheep kept for wool production.

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

b) State the importance of steaming up in sheep.

c) Give any one factor to be considered when choosing a good sheep breed.

42. a) How do broken bottles contribute to increased spread of malaria in the community?

b) Write any two signs and symptoms of malaria in an individual.

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

c) Apart from removing broken bottles, write one other way of controlling the spread of malaria.

43. a) State any two examples of organisms that live in the soil.

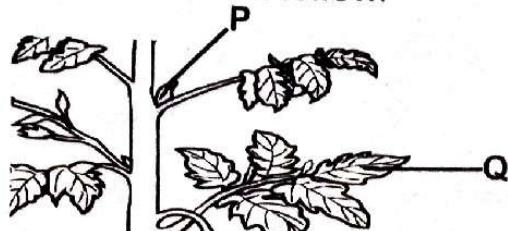
- i) \_\_\_\_\_  
ii) \_\_\_\_\_

b) Give two ways organisms benefit from the soil.

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



**44.** The diagram below shows part of a flowering plant. Study and use it to answer the questions that follow.



- a) Name the part labelled with letter P.
- b) Give any two functions of part labelled with letter Q.
- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- c) Name the pigment found in part marked with letter Q.

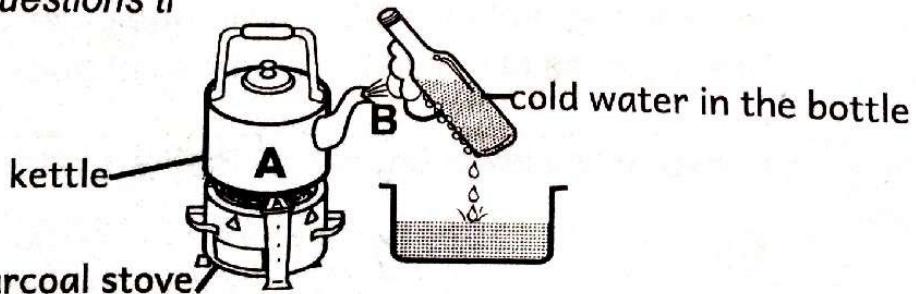
**45.** a) Give any two properties of air.

- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- b) State any two dangers of strong wind in the environment.
- i) \_\_\_\_\_
- ii) \_\_\_\_\_

**46.** a) Give any two activities done by a family to promote immunisation.

- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- b) At what age should the following vaccines be administered to babies?
- i) measles vaccine \_\_\_\_\_
- ii) second dose of DPT vaccine \_\_\_\_\_

**47.** The diagram below shows a water cycle. Study and use it to answer the questions to



a) Identify the processes taking place at A and B.

- i) A \_\_\_\_\_
- ii) B \_\_\_\_\_



b) What do the following represent in nature?

i) kettle

ii) charcoal stove

48.a) Give any two components of blood.

i)

ii)

b) Write any two foodstuffs that help in increasing the volume of human blood.

i)

ii)

49.a) Mention any two reasons why we should wash our hands after eating food.

i)

ii)

b) Give any two health activities done by people after eating food.

i)

ii)

50.a) Name any two examples of mineral deficiency diseases that affect people.

i)

ii)

b) Mention two natural disasters that can lead to poor feeding in a family.

i)

ii)

51.a) Define the term mammals.

---

b) Write the group of mammals to which bats belong in the environment.

c) Give any two importance of bats in the environment.

i)

ii)

52. a) State any two dangers of poor personal hygiene.

i)

ii)



b) How are the following items useful in the promotion of personal hygiene?

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

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

53. Match these parts of the respiratory system in list M to their functions in list N.

**List M**

epiglottis

trachea

air sacs

diaphragm

i) epiglottis

ii) trachea

iii) air sacs

iv) diaphragm

**List N**

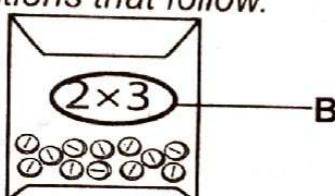
It is where gaseous exchange takes place

It prevents choking

It contracts to create space for lungs.

It directs air into and out of the lungs.

54. The diagram below shows an essential drug. Study and use it to answer the questions that follow.



a) State any one importance of the information labelled with letter B on the drug above.

b) To which group of essential drugs does the one drawn above belong?

c) If a patient was given 36 tablets of such a drug, how many days will he take to complete the dose? (2marks)

55. a) Explain the meaning of the term resources.

b) Why are plants grouped under renewable resources?

c) Mention any two ways of conserving plants as resources.

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

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



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