

# THE SIPRO SPECIAL SET - 2022

## PRIMARY SEVEN INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.

Random No.

Personal No.

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

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

school Random 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:

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



**THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA**

PUBLISHERS OF THE SIPRO TEACHERS' GUIDES, LEARNER'S WORKBOOKS & PUPIL'S COMPANIONS



**SECTION A: 40 MARKS**

*Questions 1 to 40 carry one mark each.*

1. Name **one** example of poultry with webbed feet.  
\_\_\_\_\_
2. Give **one** function of sepals to a flower.  
\_\_\_\_\_
3. Which method is used to separate mixtures of two liquids with different boiling points?  
\_\_\_\_\_
4. How does treating of water with chlorine make it safe for drinking?  
\_\_\_\_\_
5. State **one** similarity between echoes and images in the way they are formed.  
\_\_\_\_\_
6. What happens to the volume of water when it is frozen?  
\_\_\_\_\_
7. Name the instrument used for measuring the density of liquids.  
\_\_\_\_\_
8. Which immunisable disease causes spasms and stiffness of muscles in babies?  
\_\_\_\_\_
9. Why is water necessary during seed germination?  
\_\_\_\_\_  
\_\_\_\_\_
10. State **one** characteristic of dairy breed of goats.  
\_\_\_\_\_  
\_\_\_\_\_

The diagram below shows a common pest. Study and use it to answer questions 11 and 12.



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

**P.7 INTEGRATED SCIENCE SPECIAL SET - 2022**

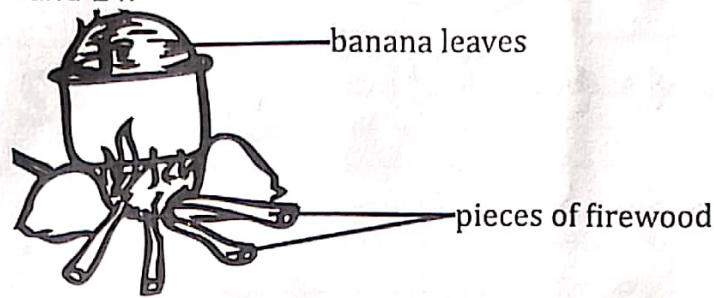
IGNITE CRITICAL THINKING AND EXPERIENCE. ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TR'S GUIDES AND PUPIL'S COMPANIONS.

11. Name **one** crop affected by the pest drawn above.
- \_\_\_\_\_
12. How does the pest above affect crops?
- \_\_\_\_\_
13. State the use of penicillium fungus to a drug manufacturing industry.
- \_\_\_\_\_
14. State **one** safe way of managing polythene bags at home.
- \_\_\_\_\_
15. Why do some plants shed their leaves during the dry season?
- \_\_\_\_\_
16. Which element of Primary Health Care controls malnutrition among infants?
- \_\_\_\_\_
17. Name the feature on a **VIP** latrine that prevents users from smoking it.
- \_\_\_\_\_
18. State the main reason why mechanics are advised to store magnets in iron keepers.
- \_\_\_\_\_
19. Why is a gecko able to move upside down a ceiling without falling?
- \_\_\_\_\_
20. Give the importance of hardening off to seedlings in a nursery bed.
- \_\_\_\_\_
21. How is the feeding of a tapeworm different from that of a hookworm?
- \_\_\_\_\_
- \_\_\_\_\_
22. Mention the excretory organ which removes bile pigments from blood.
- \_\_\_\_\_
- \_\_\_\_\_





The diagram below shows food being prepared. Study and use it to answer questions 23 and 24.



23. How do the banana leaves make the food get ready easily?

\_\_\_\_\_

24. Why are gaps left between pieces of firewood during the cooking process?

\_\_\_\_\_

25. State the function of the auditory nerve in the human ear.

\_\_\_\_\_

26. Mention **one** method that can be used to put out fire caused by petrol.

\_\_\_\_\_

27. How does a millipede protect itself against enemies?

\_\_\_\_\_

28. How is the left ventricle of the heart adapted to withstanding the pumping pressure of blood to other body parts?

\_\_\_\_\_

\_\_\_\_\_

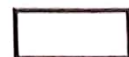
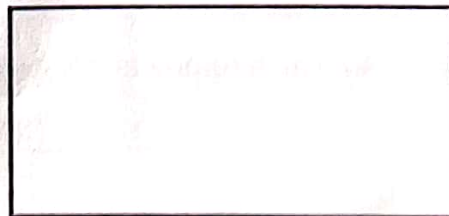
29. Which method of milking is best for production of milk for large dairy farms?

\_\_\_\_\_

30. Write **one** characteristic of dicotyledonous plants.

\_\_\_\_\_

31. In the space provided below, draw the lens which diverges light.



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 INTEGRATED SCIENCE SPECIAL SET - 2022

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

3

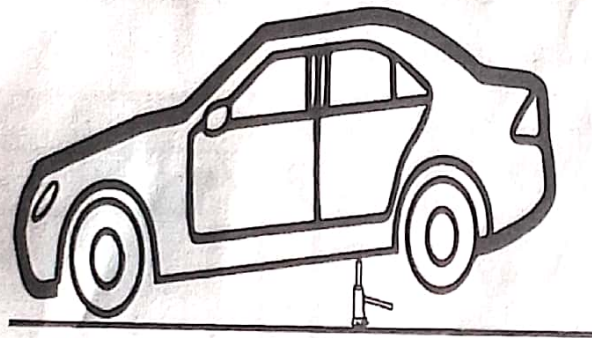
32. How can a P.7 pupil tell that a bird belongs to perching by looking at one of the feet?

33. What is the importance of the jelly like substance to the eggs of amphibians?

34. Write the type of energy possessed by a passenger in a moving taxi.

35. How do energy saving stoves conserve trees in the environment?

The diagram below shows a simple machine. Study it and answer question 36.



36. Name the group of simple machines represented by the diagram above.

37. Give **one** example of a gliding joint in the human body.

38. How is tepid sponging a useful step when administering First Aid to a person with high fever?

39. State a reason why bee keepers include a queen excluder in a modern beehive.

40. Give **one** danger of a poor disposal of rubbish at school.



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

**P.7 INTEGRATED SCIENCE SPECIAL SET - 2022**

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

4



## SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

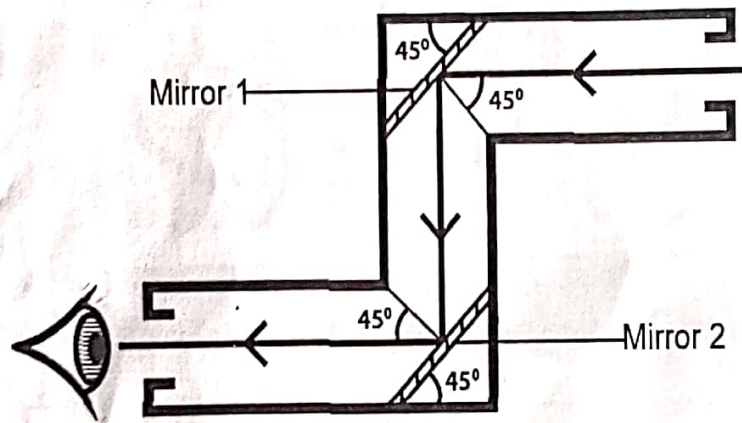
41. a) Which mosquito spreads germs that cause malaria?

b) Why does a person suffering from malaria become anaemic?

c) How does sleeping under a well treated mosquito net prevent malaria?

d) State any **one** way of controlling mosquitoes during the breeding stage.

42. The diagram below shows an optical instrument. Study and use it to answer the questions that follow.



a) Name the optical instrument shown above.

b) On which principle does the instrument above work?

c) Which type of mirrors is used in the instrument above?

d) Give a reason why the mirrors in the instrument above are inclined at an angle of  $45^\circ$ .



43. a) Name the drug of dependence that damages the following body organs:-  
i) lungs \_\_\_\_\_  
ii) brain and liver \_\_\_\_\_

b) Mention **one** factor that leads to drug abuse among adolescents.  
\_\_\_\_\_

c) Give **one** lifeskill that can safeguard a P.7 candidate against drug abuse.  
\_\_\_\_\_

44. a) Write **one** reason for carrying out each of the following activities:

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

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

b) Mention any **two** importance of crop rotation method of crop growing.

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

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

45. a) Name any **two** childhood immunisable diseases caused by viruses.

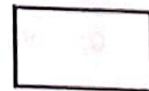
i) \_\_\_\_\_

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

b) Why are parents encouraged to take their children for immunisation?  
\_\_\_\_\_

c) Apart from the oral method, name **one** other way vaccines are introduced into the body.  
\_\_\_\_\_

46. The diagram below shows a man sharpening a knife. Study and use it to answer the questions that follow.



a) Which force enables the man to sharpen the knife above?



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 INTEGRATED SCIENCE SPECIAL SET - 2022

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

6



b) Give **two** disadvantages of the force named in (a) above.

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

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

c) Why is it important to sharpen knives before using them?

47. Mr. Obuwa's daughter died due to having her lungs filled with water. Which type of accident caused her death?

b) Mention any **two** places in the environment where accidents can occur.

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

c) Give **one** way the accident mentioned in (a) above can be prevented in the community.

48. a) Give **two** advantages of keeping local breeds of chicken over exotic ones.

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

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

b) Why is free range system of rearing poultry not recommended for layers?

c) Apart from the poultry project, name any other example of a project that can be carried out at home.

49. a) Mention any **two** dangers of strong wind in the environment.

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

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

b) Apart from providing rainfall, how else are clouds useful to the environment?

c) Give **one** way weather forecasting is useful to crop farmers.



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 INTEGRATED SCIENCE SPECIAL SET - 2022

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



50.a) Give **two** examples of crops with root nodules.

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

b) State the importance of root nodules to such crops.

c) Why are farmers encouraged to include crops with root nodules in crop rotation?

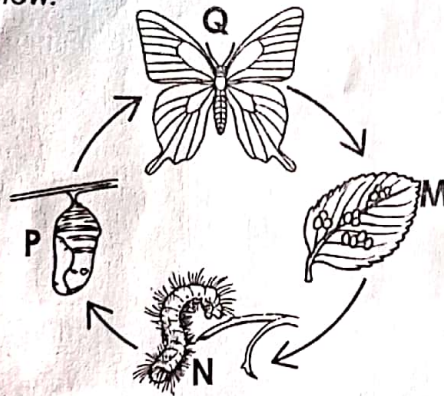
51.a) Name **two** devices used to store recorded sound.

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

b) Apart from recording, name **one** other method of storing sound.

c) Mention any **one** way of reproducing sound stored by recording.

The diagram below shows a lifecycle of an insect. Study and use it to answer the questions that follow.



52.a) Name the stages marked **M** and **P**.

- i) M \_\_\_\_\_ (ii) P \_\_\_\_\_

b) At what stage is the insect above useful to people?

c) State any **one** danger of stage **N** to crop farmers.



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

**P.7 INTEGRATED SCIENCE SPECIAL SET - 2022**

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

8



53. Musa rubbed a plastic ruler in his hair for 3 minutes and brought it near small pieces of paper.

a) What happened to the pieces of paper?

b) Why did the pieces of paper behave the way they did as mentioned in 53 (a) above?

c) Name the type of electricity proved in the experiment above.

d) Mention the form of electricity in nature related to electricity in the experiment performed by Musa.

54. Given the list of animals below:

X	Y	Z
crab	spider	housefly

a) Name the group of invertebrates to which animals X, Y and Z belong.

b) Give **one** reason why animal Y does not belong to the same group with animal Z.

c) How are animals X, Y and Z similar in their mode of reproduction?

d) Mention **one** organism that can be grouped with a spider in group Y.

55.a) Which type of soil has the highest capillarity?

b) Give a reason why the soil mentioned in (a) above has the highest capillarity.

c) Write **two** uses of the soil mentioned in (a) above.

i)

ii)



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 INTEGRATED SCIENCE SPECIAL SET - 2022

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

9