

# THE SIPRO MID-TERM II EXAMINATIONS 2023

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 20 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
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Total		

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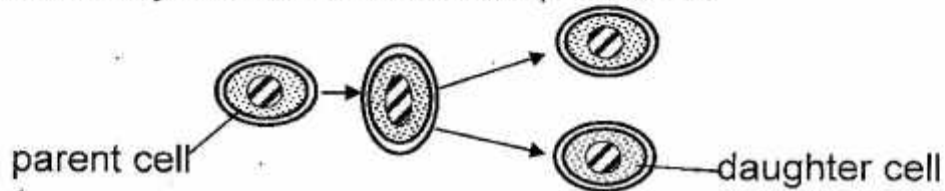
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## SECTION A: 40 MARKS

Questions 1 to 40 carry **one** mark each.

1. Name any **one** people made source of heat in the environment.  
\_\_\_\_\_
2. How are spores important to a mushroom?  
\_\_\_\_\_
3. In which **one** way is the function of lungs in people similar to that of spiracles in grasshoppers?  
\_\_\_\_\_
4. Which element of PHC is promoted by regular washing and ironing of clothes?  
\_\_\_\_\_
5. Mention any **one** item at home which uses electricity to operate.  
\_\_\_\_\_

**The diagram below shows a mode of reproduction in single celled organisms. Study and use it to answer question 6.**



6. Identify the mode of reproduction shown in the above diagram.  
\_\_\_\_\_
7. State **one** structural difference between a worker bee and a queen bee.  
\_\_\_\_\_  
\_\_\_\_\_
8. What do we call the swollen structures found on the roots of leguminous crops?  
\_\_\_\_\_
9. Give any **one** way polio affects the body of a victim.  
\_\_\_\_\_
10. State **one** importance of condensation process to people.  
\_\_\_\_\_
11. A cockroach undergoes three stages of growth. Name the second stage in its metamorphosis.  
\_\_\_\_\_
12. Why do objects weigh less on the moon than on earth?  
\_\_\_\_\_  
\_\_\_\_\_
13. Mention **one** way of controlling food contamination at home.  
\_\_\_\_\_

14. Give **one** characteristic common to all flesh eating mammals.

The diagram below shows a component of a rain gauge. Study and use it to answer question 15.



15. How is the above drawn component useful in the rain gauge?

16. Give **one** way in which plants are of benefit to people.

17. State the mode of administration for rotavirus vaccine.

18. Name **one** sheep management practice done to reduce hiding places for ecto parasites on a sheep's body.

19. Apart from taking more than one year to mature, state **one** other characteristic of perennial crops.

20. State the reason why the elderly should be fed on foods rich in proteins.

21. State **one** danger of living in a dirty environment.

22. Mention **one** example of a stem tuber eaten as food.

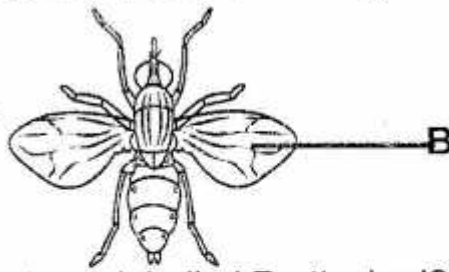
23. In which **one** way can mulching be of a disadvantage to crops?

24. Which natural resource do people get from rainfall?

25. Why do people prefer putting on light white clothes on a hot day?

26. During the process of filtration, what item can be used to separate seeds from juice?

The diagram below shows an insect. Study and use it to answer question 27.



27. On which part are structures labelled B attached?

28. Why do farmers always plant their seeds in a wet season?

29. How is a pouch useful to a kangaroo?

30. Write **one** condition in which an adult person can be considered vulnerable.

31. Write down **one** example of a PIASCY message that can be displayed in the school compound.

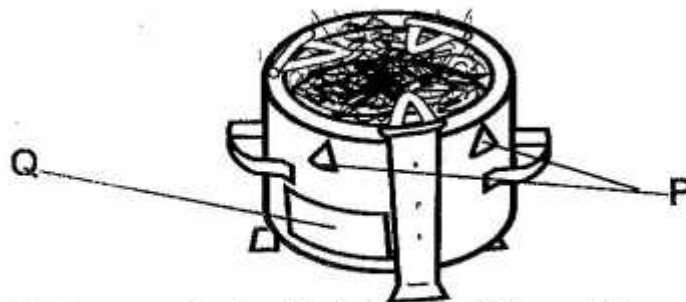
32. Mention the substance removed by kidneys from blood.

33. State **one** way of preventing eggs from breaking when rearing poultry using a deep litter system.

34. How is feeding in mushrooms similar to that in puffballs?

35. Give **one** reason why animals move from one place to another.

The diagram below shows a charcoal stove. Study and use it to answer question 36.



36. How is the function of holes marked with letter P different from that marked with letter Q?

37. In which **one** way can people prevent the spread of bilharziasis?

38. Why are beehives raised above the ground in a bee farm?

39. How do bedbugs protect themselves from enemies?

40. How is the feeding of a hookworm different from that of a tapeworm?

### SECTION B: 60 MARKS

*Questions 41 to 55 carry four marks each*

41. a) Name the garden tool used by farmers to transplant seedlings.

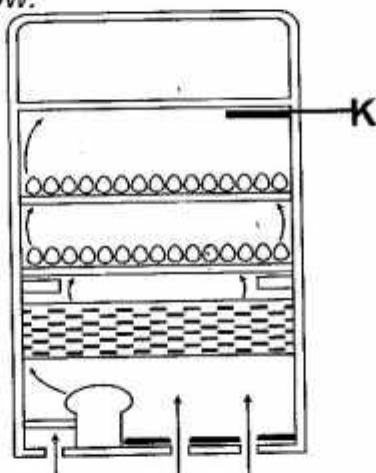
b) In which season is transplanting done?

c) Mention any **two** ways of caring for garden tools after use.

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

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

42. The diagram below shows an equipment used in poultry keeping. Use it to answer the questions that follow.



a) Name the equipment drawn above.

d) Name the part marked **K**.

c) In which type of incubation is the above drawn equipment used?

d) Give a reason why this equipment is not commonly used in rural areas.

43. a) Give any **two** importance of food to the body.

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

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

b) Mention any **two** examples of body building foods.

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

44. a) State any **two** differences between mass and weight.

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

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

b) Give any **two** examples of objects whose volume is got by the displacement method.

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

45. a) Mention any **two** examples of animals that make use of echoes.

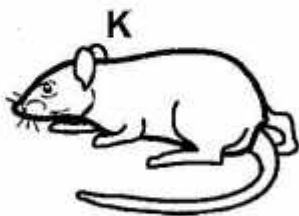
i) \_\_\_\_\_ (ii) \_\_\_\_\_

b) Write any **two** ways echoes are useful to the above animals.

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

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

46. The diagrams below show different organisms. Use them to answer the questions that follow.



a) To which group of mammals does animal **K** belong?

b) State **one** similarity between animals **K** and **M**, in terms of reproduction.

c) How is the body structure of organism marked **L** different from that of organisms **K** and **M**?

d) Give **one** way in which organism marked with letter **L** is a threat to human health.



47. a) Name any **one** germ that causes diarrhoea.

b) State any **two** conditions that can lead to the easy spread of diarrhoea.

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

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

c) Mention **one** effect of untreated diarrhoea to the body.

\_\_\_\_\_

48. a) Give any **two** exotic sheep breeds kept for wool.

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

b) State **two** reasons for docking female sheep.

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

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

49. a) Besides yeast, give **one** other example of a useful fungus.

\_\_\_\_\_

b) How is yeast different from other fungi?

\_\_\_\_\_

\_\_\_\_\_

c) Give any **two** uses of fungi to people.

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

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

50. a) State the percentage of oxygen in air.

\_\_\_\_\_

b) Write down any **two** uses of oxygen in our daily life.

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

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

c) Why isn't oxygen used in fire extinguishers?

\_\_\_\_\_

51. a) Name any **two** parts of the alimentary canal that help in food absorption.

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

b) Mention any **two** adaptations of the ileum for food absorption.

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

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

52. The diagrams below show people suffering from deficiency diseases. Use them to answer the questions that follow.



a) Identify the deficiency disease each person in diagram **S** and diagram **T** is suffering from.

i) **S** \_\_\_\_\_

ii) **T** \_\_\_\_\_

b) Which mineral salt is lacked in the body of the person in diagram **T**?

c) What advice can you give to the parent of child in diagram **S**?

53. a) Match the types of changes in list **C** to their examples in list **D**.

**List C**

biological changes

physical changes

chemical changes

**List D**

melting of candle wax

burning of wood into ash

flowering in plants

i) biological changes \_\_\_\_\_

ii) physical changes \_\_\_\_\_

iii) chemical changes \_\_\_\_\_

b) Mention **one** importance of chemical changes to people.

54. a) Name any **two** non-living components of soil.

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

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

b) In which **two** ways are soil organisms important to soil?

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

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

55. a) Mention any **two** possible causes of poisoning at home.

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

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

b) State any **two** measures that can be taken to control poisoning at home.

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

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