

████████ PRIMARY SCHOOL █████

PRE PLE INTERNAL SERIES IV

2024

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.						Personal No.		

Candidate's Name:

Candidate's Signature:

District No:

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has **16** printed pages.
3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated: "**For Examiners' use only**" and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

SECTION A: 40 MARKS

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

1. Name the gas which supports burning.

.....

2. Give the importance of a wire mesh on a rabbit hutch.

.....

3. State any **one** product got from sisal fibres.

.....

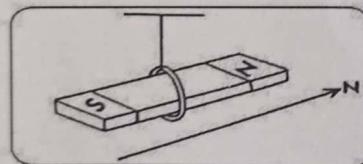
4. Name the type of electricity produced by lightning.

.....

5. Name the active stage of a cockroach which is wingless.

.....

The diagram below shows a bar magnet. Use it to answer question 6.



6. What is the importance of keeping the bar magnet while facing in the direction shown above.

.....

7. Why do most commercial poultry farmers carry out artificial incubation?

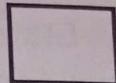
.....

8. Name any **one** structure plants with weak stems use to climb.

.....

9. Give any one cause of truancy in schools.

10. Name the parasitic worms which cause anemia in infants.

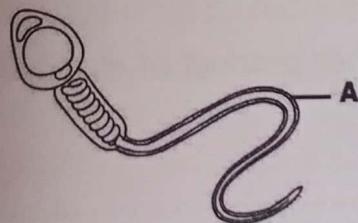


11. How is BCG vaccine administered to babies?

12. State any **one** danger of plastics dumped on soil.

13. Give any **one** disease prevented by observing good personal hygiene.

The diagram below is of a reproductive cell. Use it to answer questions **15** and **16**.



14. Name the reproductive cell shown above.

15. State the function of part labeled **A** to the reproductive cell.

16. How does a chameleon benefit from its sticky tongue?

.....

17. Name the group of annual crops that store seeds in pods.

.....

18. State any **one** effect of tobacco smoking to the unborn baby of a pregnant woman.

.....

19. Why should a husband and wife go for gonorrhea treatment together?

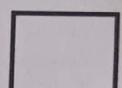
25

.....

20. Name any **one** physical process involved in the water cycle.

26

.....



21. Why should a squat hole of a VIP latrine be left open all the time?

.....

22. Apart from bricks, give any other product of clay soil used in the construction of homes.

.....

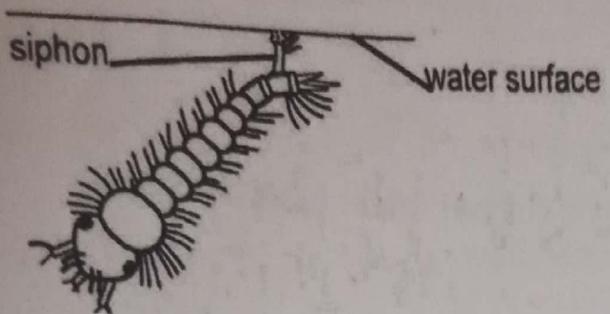
23. Why should a farmer fully cover his body when he is going to harvest honey?

.....

24. Name any **one** importance of colostrum to the calf.

.....

The diagram below shows a stage in the life cycle of mosquitoes. Use it to answer questions 25 and 26.



25. Name the stage of development shown in the diagram above.

.....

26. Identify the disease spread by the mosquito that develops from the above stage.

.....

27. Give any **one** advantage of food taboos in the community.

.....

28. Name the liquid substance used to reduce friction in moving parts of a machine.

.....

29. Name the important process that takes place in the cortex of the kidney.

.....

Turn Over

30. How are children on a school compound able to hear sound of a ringing bell?

.....

.....

31. Name the system of keeping chicken where birds are kept in movable structures in an open floor.

.....

32. Name the type of skeleton formed by the cuticle of arthropods.

35.

.....

33. In the space provided below, draw a converging beam.

36.

.....

37. Draw a diagram of a plant cell showing its various parts.

37

.....

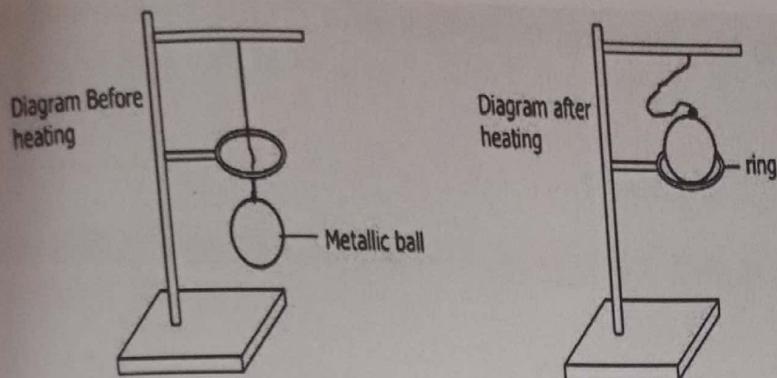
34. What energy change takes place when a bird flies from a tree?

38

.....

.....

The experiment below was carried out to investigate certain effect of heat on metals. Study and use it to answer questions 35 and 36.



35. What does the above experiment prove about metals?

.....

36. Why was the metallic ball not able to pass through the ring immediately after heating it?

.....

37. Why are school children advised to abstain from sex?

.....

38. Name the method of magnetization which does not involve the use of another magnet.

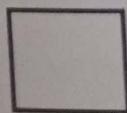
.....

39. Give any **one** reason for sorting clothes before washing them.

.....

40. How can cattle farmers control nagana in their animals?

.....



Questions 41 to 55 carry four marks each.

41. a) What term refers to the keeping of timber in a shade to allow it dry at a slow rate?

.....

- b) Give a reason why timber for roofing houses should be treated with used engine oil.

.....

- c) State any **two** ways in which the cutting of wood for timber negatively affects the environment .

i)

ii)

42. a). List any **two** examples of harmful materials that pollute water.

i)

ii)

- b) State any **one** effect of water pollution on human health.

.....

- c) Give any **one** way of protecting community water sources from pollution.

.....

43. a) Apart from bees, mention any **two** other examples of insects that pollinate flowers.

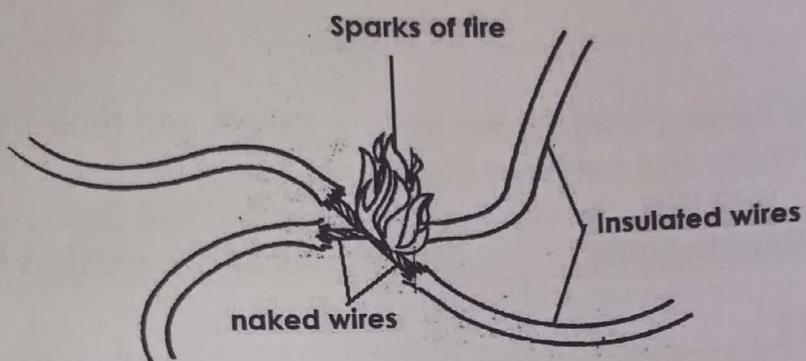
i)

ii)

b) State any **two** characteristics of insect pollinated flowers.

- i)
- ii)
-

44. The diagram below shows an electrical problem. Study and use it to answer the questions that follow.



a) Name the electrical problem shown above.

b) State the **main** cause of the electrical problem above.

d) How can the above problem be prevented during the installation of electricity in the house?

e) State any **one** advantage of using electricity in solving daily problems.

45 a) Write down any **two** principles of Primary Health Care (PHC).

- i)
- ii)

b) Give any **two** ways how a family can promote Primary Health Care (PHC).

- i)
- ii)

46. The table below shows garden tools in **part A** and their uses in **part B**. Study and complete it correctly.

Part A: Garden tools	Part B: Uses of the garden tools
Secateurs
.....	For transporting harvested crops
Trowel
.....	For turning manure in a compost pit

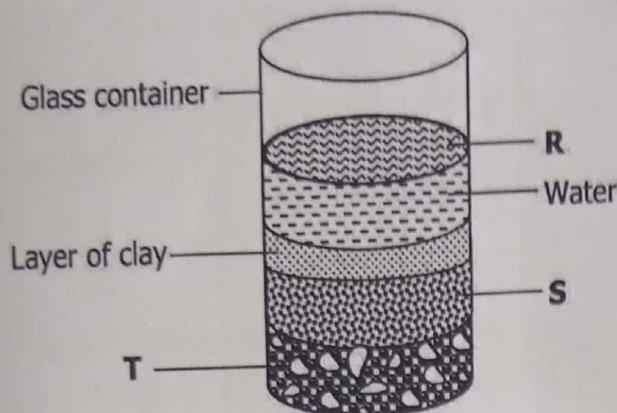
47. a) Identify any **one** example of each of the following types of changes as a wax candle burns.

- i) Chemical change.....
- ii) Physical change.....

b) Name the **two** forms of energy produced by the candle as it burns.

- i)
- ii)

48. The diagram below shows a glass container into which a soil sample was placed and thoroughly mixed with water. The components settled as shown. Study and use it to answer the questions that follow.



a) Name the part labeled **S**.

.....
.....

b) Give any **two** ways in which soil component **R** is useful in plant growth.

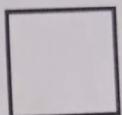
i)
ii)

c) Which process forms the soil component labeled **T**?

.....

Name the vaccines given for the following diseases;

- i) Tuberculosis
 - ii) Poliomyelitis
- b) Why does the government of Uganda emphasize immunization of all infants?
.....
- c) Apart from immunization, give any **one** other way of controlling the spread of poliomyelitis.
.....



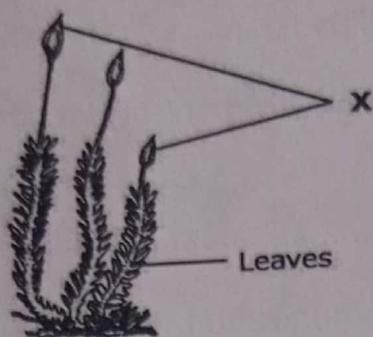
50 a) Name the important process which takes place in the air sacs.

.....
b) Give any **two** adaptations of air sacs to carrying out the process mentioned in (a) above.

- i)
- ii)

c) State any **one** way one can keep the respiratory system healthy.
.....

51. The diagram below shows a non-flowering plant. Study and use it to answer the questions that follow.



a) Name the non-flowering plant shown above.

.....

b) How is part labeled X useful on the above non-flowering plant?

.....

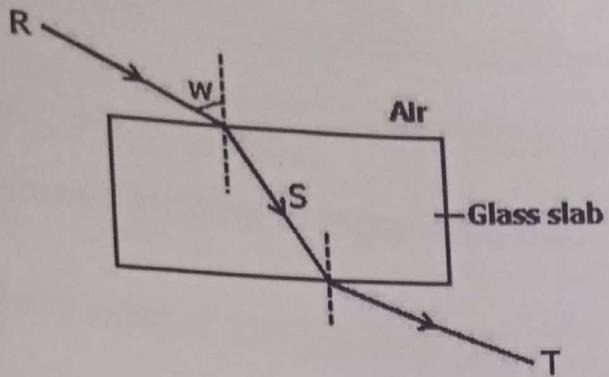
c) Mention any **one** other plant that can be grouped with the above plant.

.....

d) How is the above plant different from a bean plant in terms of reproduction?

.....

54. The diagram below shows refraction of light through a rectangular glass slab. Study and use it to answer the questions that follow.



a) Identify the angle marked **W**.

b) Identify the rays of light **R** and **T**.

i) **R**

ii) **T**

c) Why does the ray of light **T** bend away from the normal?

Turn over

52. a) Give any **two** physical characteristics of dairy cattle.

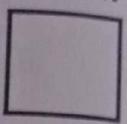
i)

ii)

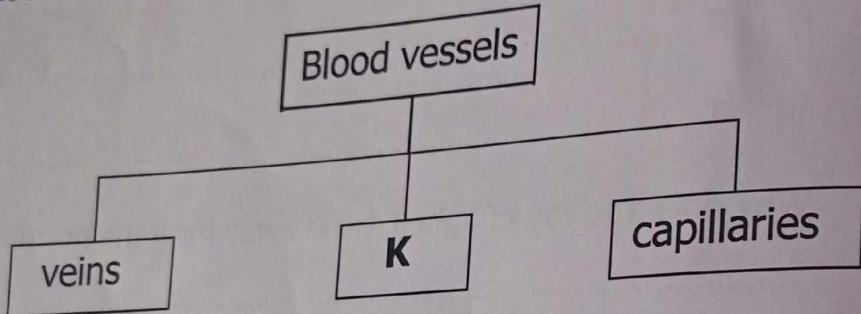
b) State any **two** advantages of artificial insemination in cattle.

i)

ii)



53. The table below shows the different types of blood vessels. Study and use it to answer the questions that follow.



a) Name the type of blood vessels represented by **K**.

.....

b) State the difference between blood vessels at **K** and veins in terms of function.

.....

c) Apart from blood vessels, name the **two** other components of the circulatory system.

(i)

(ii)

55. a) Write any **one** cause of poisoning in our homes..

b) Give a reason why it is advisable to make a person who has taken a solid poison to vomit.

c) State any **two** ways of safeguarding against poisoning in our homes.

i)

ii)

