

SUCCESS ACADEMIC EXAMINERS (SAE)

PRE - PRIMARY LEAVING EXAMINATION SET IV, 2018



INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.

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Candidate's Name: _____

Candidate's Signature: _____

School Name: _____

District Name: _____

**DO NOT OPEN THIS BOOKLET UNTIL
YOU ARE TOLD TO DO SO.**

Read the instructions carefully:

1. This paper is made up of Sections A and B.
2. Section A has 40 short-answer questions. (40 marks)
3. Section B has 15 questions. (60 marks)
4. Answer **All** questions. **All** answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using blue or black ball point pen or ink. Diagrams should be drawn in pencil
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be read may lead to loss of marks.
8. Do not fill anything in the boxes indicated

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FOR EXAMINERS' USE ONLY

Qn. No.	Marks	Final Mark
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

Turn Over

SECTION A

Questions 1 to 40 carry one mark each.

1. Name the type of blood that is carried by the vena cava.
2. Give **one** problem that can occur to people in a community with little food to eat.
3. Write down **one** way through which soil can be polluted.
4. Why are reptiles able to survive in both deserts and cold temperate regions?
5. Mention any **one** metal that can not rust.

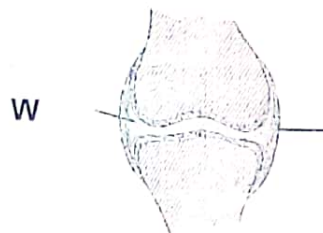
The diagram below shows a simple machine. Use it to answer questions 6 and 7.



6. Using P show the position of the pivot.
7. To which group of lever does the above tool belong when it is in use.
8. Where in the digestive system of chicken is food ground?
9. Why is a sweet potato garden always moist?
10. How is the swimming bladder useful to fish?
11. Give **one** material that can be used in place of filter paper during filtration method.
12. Why should blood from the intestines flow to the liver before circulating to other body parts?
13. Give **one** way through which agro chemical can be dangerous to the environment.
14. Name the permanent birth control method in females.
15. What role can the Chairman L.C. 1 play in your community to ensure that there is good sanitation?
16. State the substance in cigarete smoke that is harmful to the lungs.

7. Mention the natural process in living things that increases the amount of carbondioxide in the atmosphere.

The diagram below shows a knee joint in our body. Use it to answer question 18 and 19.



3. What type of joint is shown above?
1. How is the liquid marked W useful in the joint above?
1. Why does clay lined charcoal stove use less charcoal than an ordinary charcoal stove?

Write in full CDD.

Give a reason why plant leaves that have turned yellow are unable to make food.

How do toads protect their eggs from enemies?

Who is an invalid?

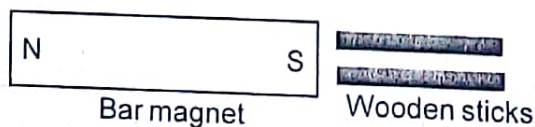
What role do cilia play in our nose?

Apart from bone marrows, mention one other part of the body where white blood cells are made.

How can plants be conserved in the environment?

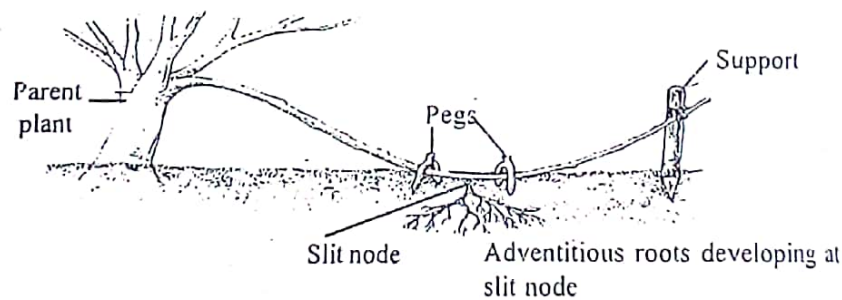
Why should harvested crops be properly dried before storing?

The diagram below shows an experiment about magnets. Use it to answer questions 29 and 30.



29. What would happen between the bar magnet and wooden sticks after sometime?
30. What does the experiment in number 29 above prove about magnets?
31. How are cactus plants able to survive in deserts?
32. Give **one** method used to administer vaccines in our body?
33. State **one** factor that can be used to determine the breed of cattle.
34. Why do people abuse drugs?
35. How can the body benefit from the respiratory system?
36. By what process does paraffin move up the wick in a lantern lamp?
37. Give a reason why a health survey should always be carried out in the country?

The diagram below shows a method of propagating crops. Use it to answer questions 38 and 39



38. Name the method of propagation shown above.
39. What is the advantage of using the method of propagation shown above over using seeds?
40. Give **one** part of a thermo flask that is made up of an insulator of heat.

SECTION B (60 MARKS)

Questions 41 to 55 carry four marks each.

41. a) Give **one** way in which drought is a problem in the environment.
- b) State **one** way of managing the effects of drought.

c) Write down any one tool that you can use to care for yourself in a rainy weather.

d) Name the element of wind that can be measured.

42. a) State any two problems most likely to affect a pupil who does not bathe regularly.

i) _____

ii) _____

b) Why would you encourage fellow pupils to bathe using enough water?

c) Give a reason why one should always cut his/her finger nails short.

The diagram below shows a blood vessel. Study it and answer questions that follow.

Thick wall

W



43. a) Name the part marked W.

b) What type of blood vessel is shown above?

c) Why is the above blood vessel thick walled?

d) How is blood useful in our body?

44. a) Give one role of a child at home.

b) State any two basic needs of a family.

i) _____

ii) _____

c) Why should a family grow enough crops?

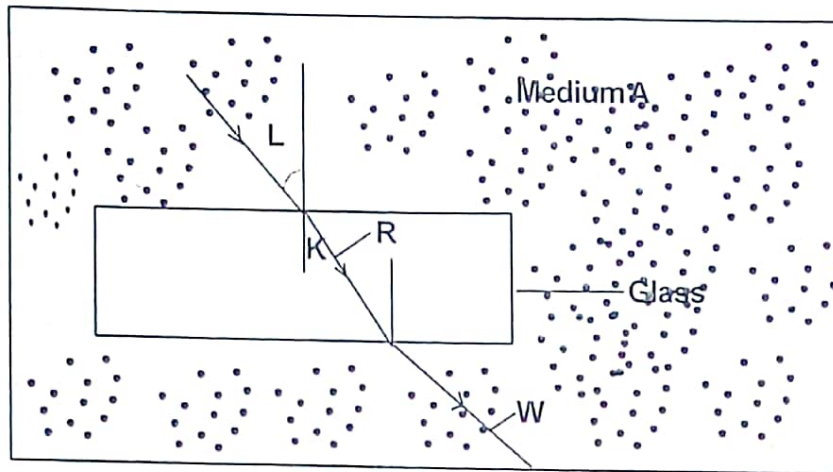
45. a) Name the breed of sheep mainly kept for wool production.

b) Apart from wool, what else do people get from keeping sheep?

c) Give a reason why docking is carried out in sheep management.

d) How best can the spread of rinderpest amongst sheep be controlled in the community?

The diagram below shows one of the properties of light energy. Use it to answer questions that follow.



16. a) What property of light is shown by the above diagram?

 b) Name the angle marked K.

 c) State the ray marked R.

 d) Give a substance that can represent medium A.

17. a) What type of immunity can we get after recovering from an illness?

 b) How is BCG vaccine useful in the immunisation programme?

 c) At what age are infants supposed to be immunised against measles?

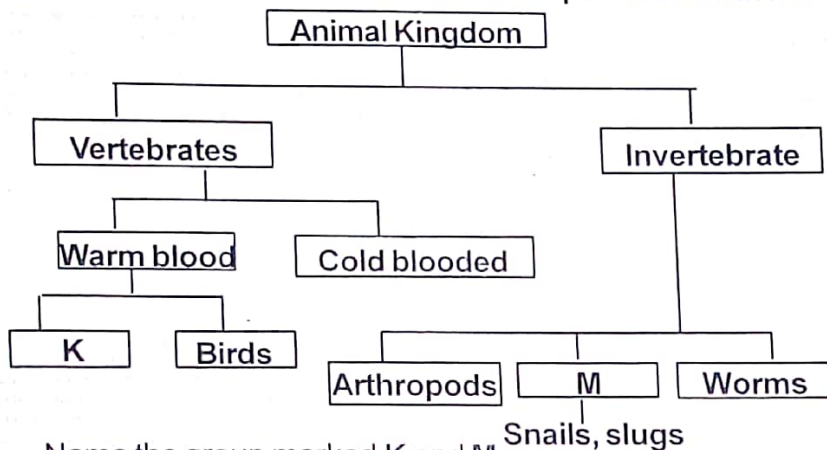
 d) Besides immunisation, state **one** other way you can protect yourself from polio infection.

18. a) Name the vectors that spread the following disease germs;
 i) Trypanosoma

 ii) Plasmodia

 b) Besides spraying, give **two** other ways of controlling disease vectors in our community.
 i) _____
 ii) _____

Study the tree diagram below and answer questions that follow.



a) Name the group marked K and M.

i) K _____

ii) M _____

b) Give **one** characteristic that is common to all arthropods.

c) Mention any **one** factor that can be used to group animals.

a) In which state of matter does heat travel slowest?

b) Why is water regarded as matter?

c) Give **one** characteristic of the solid state of matter.

d) By what process does heat travel through liquid state of matter?

a) When do plants need the following gases?

i) Carbon dioxide _____

ii) Oxygen _____

iii) Nitrogen _____

b) By what means do plants roots obtain water from the soil?

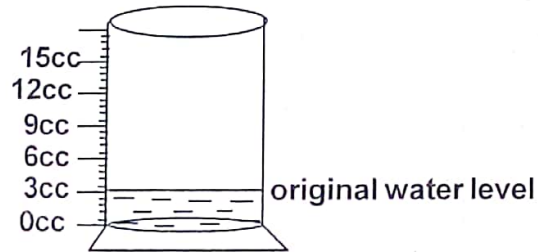
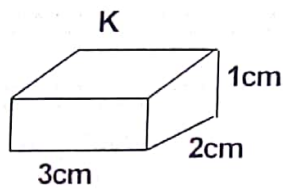
a) How do flowering plants reproduce?

b) Mention **one** part of a flowering plant that forms the shoot system.

c) Give **one** feature that can help you identify a monocotyledonous plant from a group of dicotyledonous plants.

- d) Why do flowering plants dry up once their roots are cut off?

Use the diagram shown below to answer the questions that follow.



- a) What is the volume of object marked K?

-) If object K is immersed in the measuring cylinder, to what level will the water rise?

Calculate the density of object K if its mass is 30g. (2 marks)

Mention **one** energy resource from water.

How can water be used as an energy resource?

Give the advantage of using electricity for cooking over charcoal.

State any **one** way of conserving animal resources.

Name the body organ that can help a P.7 boy know that

i) tea is hot

ii) sugar is enough in tea

How is the brain useful to man?

In which major body part is the heart found?

END