

SMART STAR EXAMINATIONS BOARD

PRE – MOCK EXAMINATION SET FOUR

2024

INTEGRATED SCIENCE

Time allowed : 2 hours 15 minutes

EMIS No.						Personal No.		

Candidate's Name

Candidate's signature.....

School Name.....

Read the following instructions carefully;

1. This paper has **two** sections: **A** and **B**.
Section **A** has **40** questions and section **B** has **15** questions.
2. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
3. All working must be done using a **blue** or **black** ball-point pen or fountain pen.
Any work done in pencil other than graphs, pictures and diagrams will **not** be marked.
4. Unnecessary **changes** of work and any handwriting that cannot easily be read may lead to **loss of marks**.
5. Do **not** fill anything in the boxes indicated: **“For Examiners’ Use Only”** and boxes inside the question paper.

FOR EXAMINERS’ USE ONLY

QN. NO.	MARK	EXR’S NO.
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION A: 40MARKS

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

1. Give **one** condition of weather.

.....

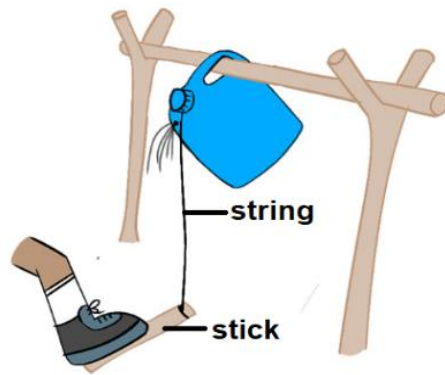
2. Write down **one** example of a wingless insect.

.....

3. Give the type of soil that has the highest capillarity attraction.

.....

*Use the diagram below to answer questions **4** and **5**.*



4. Identify the facility shown above.

.....

5. State the reason why people put in place the facility shown above in their homes.

.....

6. What are dicotyledonous plants?

.....

.....

7. By what process does food move to the blood stream?

.....

8. How is the sun used as a resource?

.....

9. Why does an inflated balloon burst when left under sunshine?

.....

10. State the sense detected by the tongue.

.....

11. Give **one** reason why farmers carry out weeding.

.....

12. State the first aid for a snake bite.

.....

13. How is the life cycle of a tsetsefly different from that of a locust?

.....

14. A sugarcane stores its food in its stem, why is it not regarded as a stemtuber?

.....

*Use the diagram below to answer question **15** and **16**.*



15. In which group of musical instruments does the above instrument belong?

.....

16. How is the musical instrument shown above made to produce sound?

.....

17. How are carbohydrates important in the body?

.....

18. How do bacteria reproduce?

.....

19. Give **one** way electricity is utilized at home.

.....

20. Why is immunization against tuberculosis done at birth?

.....

21. How can a mango tree be useful to a goat?

.....

22. What are non-communicable diseases?

.....

.....

23. Give **one** example of a vitamin deficiency disease.

.....

24. How are air crafts made to reduce viscosity?

.....

25. What part of air do plants use for respiration?

.....

*Use the diagram below to answer questions **26** and **27**.*



26. Name the equipment shown above.

.....

27. How is the equipment shown above useful during management of first aid?

.....

28. Apart from total health for all, state any **other** principle of PHC.

.....

29. Why do people sometime soak dry beans before cooking them?

.....

30. How can one recover salt from a salt solution?

.....

31. Give **one** characteristic of animals that are tuber crop pests.

.....

32. At least how far should a pit latrine be constructed from a borehole?

.....

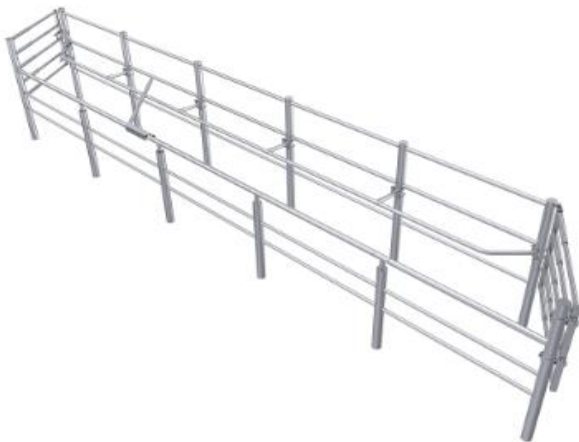
33. Name the structure that protects the growing tip of the plant root.

.....

34. State the function of the gills toa mushroom.

.....

*Use the diagram below to answer questions **35** and **36**.*



35. Name the cattle structure shown above.

.....

36. State **one** activity carried out in the structure above.

.....

37. Write **one** importance of a micropyle.

.....

38. How can one control dust in a house whose floor is not cemented?

.....

39. Why is moulting regarded a biological change?

.....

40. Give the breeze that occurs commonly at night.

.....

SECTION B: 60 MARKS

Questions **41** to **55** carry **four** marks each.

41a) State **two** ways of preserving food.

i)

ii)

b) Give **two** reasons why people preserve food.

i)

ii)

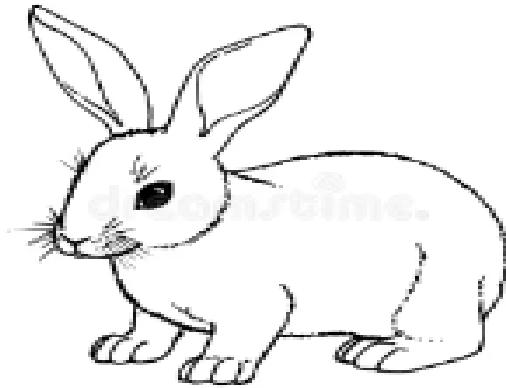
42a) What is an accident?

.....

.....

- b) Give **two** effects of accidents.
i)
ii)
- c) Why are drugs kept out of reach from children?
.....
- 43a) What is meant by the term personal hygiene?
.....
.....
- b) State **two** ways of promoting personal hygiene.
i)
ii)
- c) How is cutting finger nails short important?
.....
- 44a) Apart from mosquitoes, give **two** other vectors that breed from water.
i)
ii)
- b) What general name is given to the diseases spread by vector in 'a' above?
.....
- c) How do fish help to control diseases spread by mosquitoes?
.....

45. Use the diagram below to answer question that follow.



a) Give one disease that affect the domestic animal above.

.....

b) How does hair keep the above animal warm?

.....

c) Give **one** reason why people keep the animal above.

.....

d) How is the animal above protected from dampness from the ground?

.....

46a) What is a fuel?

.....

.....

b) Give **two** examples of wood fuels.

i)

ii)

c) What happens when wood is burnt in much supply of oxygen?

.....

47a) What makes air matter?

.....

b) Give **two** effects of heat on matter.

i)

ii)

c) Give **one** way a solid is different from a liquid.

.....

48 a) Give **two** systems of cattle keeping.

i)

ii)

b) Write down any cattle product.

.....

c) Give **one** milk product.

.....

49a) What honey bees pollinate beans?

.....

b) State **two** roles of worker bees in a hive.

i)

ii)

c) How is propolis useful to honey bees?

.....

50a) Give **two** ways animals are useful to plants.

i)

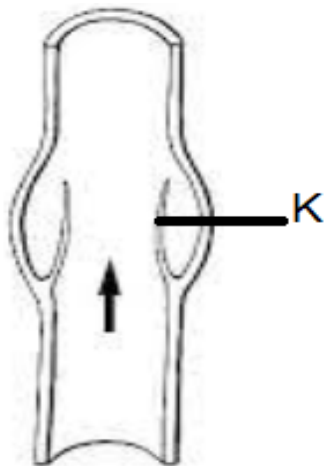
ii)

b) State **two** importance of plants to animals.

i)

ii)

51. Use the diagram to answer question that follow.



a) Identify the blood vessel shown.

.....

b) Name part marked K.

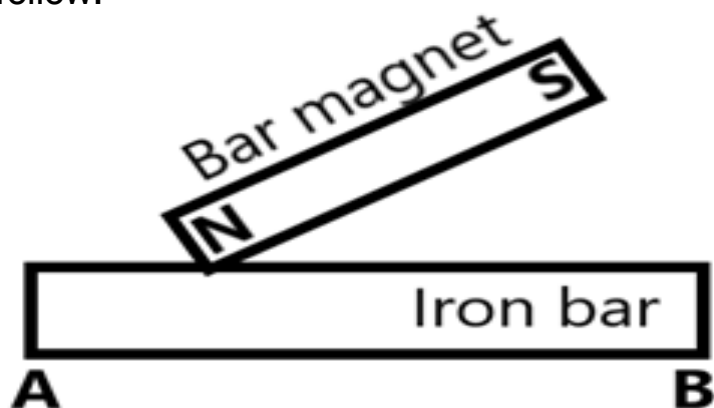
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c) State **two** characteristics of the blood vessel above.

i)

ii)

52. The diagram below shows a method of magnetization. Use it to answer questions that follow.



a) Name pole marked B

.....

b) State the method of making magnets shown above.

.....

c) Give one property of magnets.

.....

.....

d) Name one device that works on the principle of electromagnetism in our daily life.

.....

53 a) What is the best food for babies below 6 months?

.....

b) State **two** advantages of breastfeeding to babies.

i)

ii)

c) What food value lacks in breast milk?

.....

54 a) Give **two** things that happens to air in the nose when we breathe in.

i)

ii)

b) Where does respiration take place in the body?

.....

c) Why do we breathe in air?

.....

55a) Apart from levers, give **one** other class of simple machines.

.....

b) Why is a wheelbarrow classified under second class levers.

.....

c) State **two** ways machines simplify work.

i)

ii)

SUCCESS