

MAKINDYE SSABAGABO MUNICIPALITY EXAMINATION BOARD
PRIMARY LEAVING MOCK - 2023
INTEGRATED SCIENCE
Time Allowed: 2 Hours 15 minutes

Index No.

EMIS	Personal No.

Candidate's Name : _____

Candidate's Signature: _____

School Name : _____

Head teacher's Contact : _____

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. Answer all questions. All answers to both sections A and B must be written in the spaces provided.
3. All answers must be written using a blue or black ball point pen or ink. Any work written in pencil will not be marked.
4. Unnecessary changes in your work and 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."

FOR EXAMINERS' USE ONLY		
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

Turn over

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name the method used to separate fruit juice from fruit seeds.

2. Mention any **one** activity that happens to air in the nose during inhalation.

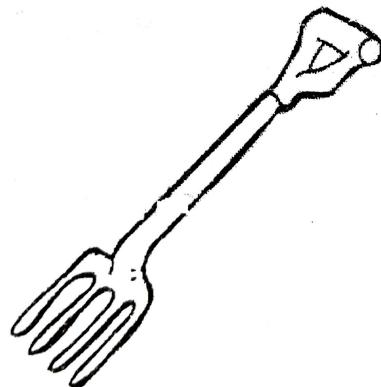
3. Give any **one** importance of draught cattle on the farm.

4. How does density affect the behaviour of objects immersed in a bucket of water?

5. Name the reproductive parts of mushrooms.

6. Give any **one** way of improving the efficiency of wedges.

The diagram below shows a garden tool. Use it to answer questions 7 and 8.



7. Name the garden tool shown above.

8. Write any **one** farm activity done using the shown garden tool.

9. Mention any **one** component of the pulp cavity.

10. Where in the female reproductive system does conception take place?

11. Give any **one** reason why sand soil is not suitable for crop growing.

12. Which method of heat transfer that enables lit charcoal to burn?

13. State the function of the pulmonary arteries during blood circulation.

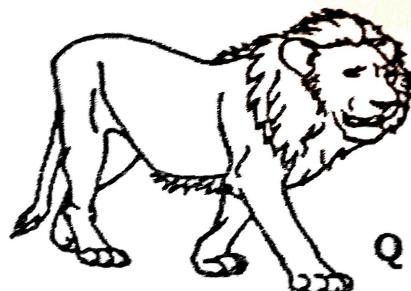
14. By what process does food move along the alimentary canal?

15. How does pruning help to reduce transpiration in plants?

16. Give any **one** way of managing rubbish heaps in a home.

Below are vertebrates. Study and use it to answer questions

17 and 18.



17. To which group of vertebrates does animal **Q** belong?

18. How is vertebrate **Q** and **P** related in terms of feeding?

19. State any **one** danger of taking over dose of essential drugs to patients.

20. Apart from pellets, give any **one** other example of feeds given to rabbits.

21. Give a reason why BCG vaccine is administered to babies at birth.

22. State any **one** importance of ash in an Ecosan latrine.

23. Name the tissue that attaches bones together at a joint.

24. State the principle of light under which a pinhole camera operates.

25. Give any **one** importance of rotting of matter in the environment.

26. Mention any **one** element of Primary Health Care (PHC) that helps to boost immunity in infants.

27. Give the similarity between the propagation of banana plants and pineapples.

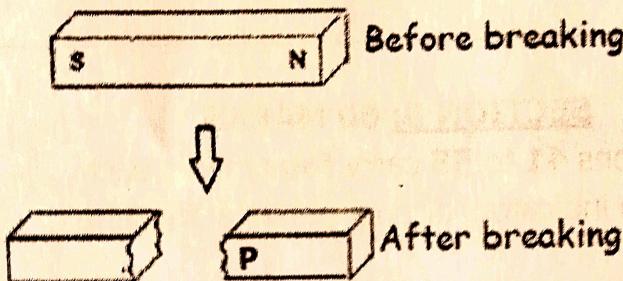
28. Which excretory waste helps to cool the human body?

29. Give a reason why rinsing of clothes is important during washing.

30. Give any **one** importance of proteins to convalescents.

31. Apart the sun, give **one** other renewable resource used to generate electricity.
-

The diagram belows the property of magnets. Study and use it to answer questions 32 and 33.



32. Identify the pole of the magnet marked **P**.
-

33. Give a reason to support your answer in **No.32** above.
-
-

34. Which chemical change causes a brown coat on iron garden tools?
-

35. State any **one** life skill that helps adolescents to safeguard against the contraction of HIV/AIDS.
-

36. Give any **one** way the use of biogas helps to conserve trees in an area.
-

37. Which element of weather helps crop farmers to separate bean seeds from husks?
-

38. Name the deficiency disease where a child has **a swollen neck and difficulty breathing?**
-

39. What advice would you give to the mother whose child is suffering from the above disease?

40. Mention the activity carried out on sheep to ease mating.

SECTION B: 60 MARKS

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

41. (a) Mention any **two** indicators of poor personal hygiene.

(i) _____

(ii) _____

(b) State any **one** use of each of the following items when promoting personal hygiene.

(i) Water: _____

(ii) Pumice: _____

42. (a) To which state of matter does each of the following belong?

(i) Porridge _____

(ii) Smoke _____

(b) Give any **two** effects of heat loss on matter.

(i) _____

(ii) _____

43. (a) Give the meaning of the following terms.

(i) Incubation: _____

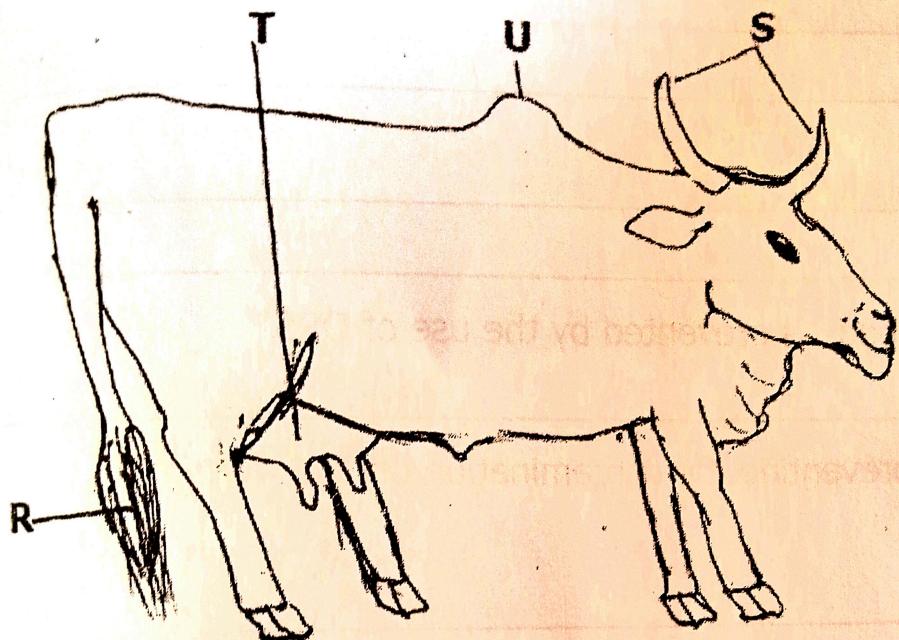
(ii) Brooding: _____

(b) Give any **two** advantages of artificial brooding in poultry management.

(i) _____

(ii) _____

44. The diagram below shows the external parts of a cow. Study and use it to answer questions about it.



(a) Name the part marked **U**.

(b) State the function of part marked;

(i) **R**:

(ii) **S**:

(c) Which of the parts is affected by mastitis?

45. (a) Name the type of skeleton made of the human body.

(b) Which long bone is located between the hip and the knee?

(c) Mention any **one** characteristic of hinge joints.

(d) How is the skeletal system useful to the circulatory system?

46. (a) Give the importance of each of the following components of Oral Rehydration Solutions (**ORS**) to patients.

(i) Sugar: _____

(ii) Water: _____

(b) Which condition in the body is prevented by the use of ORS?

(c) State any **one** way of preventing the contamination of ORS during preparation?

47. (a) Mention any **two** groups of arthropods.

(i) _____
(ii) _____

(b) Give any **two** characteristics of arthropods.

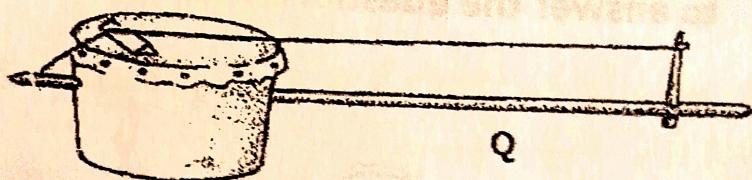
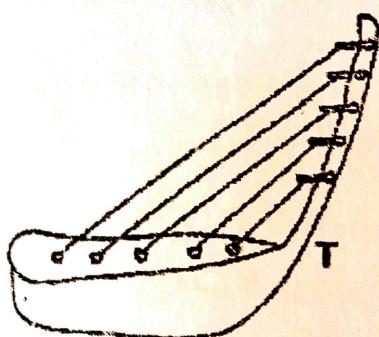
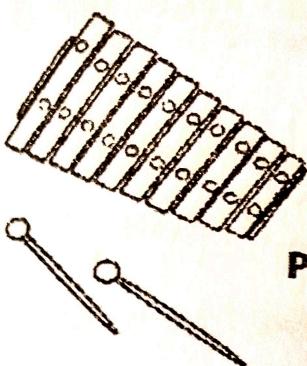
(i) _____
(ii) _____

48. (a) Apart from single fixed pulleys, write any **two** other groups of pulleys.

(i) _____
(ii) _____

(b) A man carried load of **500N** using effort of **250N** on a wheelbarrow. Find the mechanical advantage. (**2 Marks**)

49. The diagram below shows musical instruments. Study and use it to answer questions about it.



(a) Identify the musical instrument marked **P**.

(b) Which of the two musical instruments would you group together?

(c) Give a reason to support your answer in (b) above.

(d) How can the pitch of musical instrument marked **R** be varied?

50. (a) Which vector spreads bubonic plague to people?

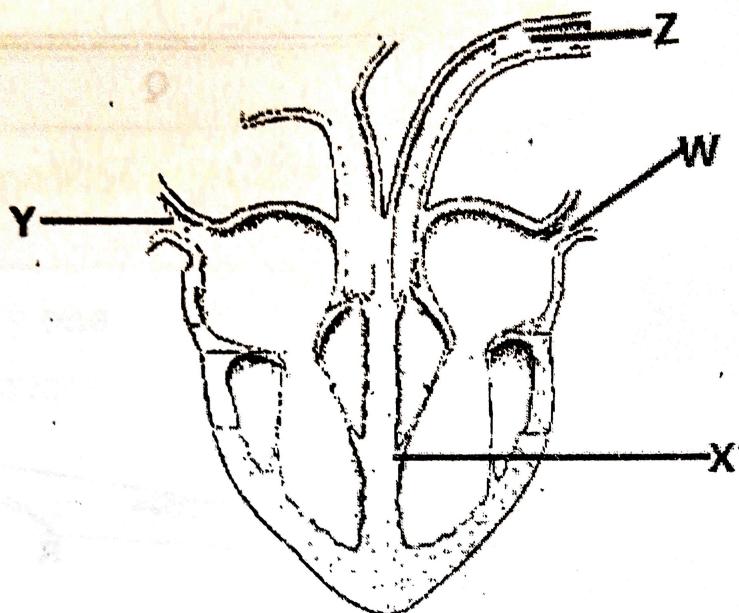
(b) How do the following disease vectors spread germs?

(i) Ticks; _____

(ii) Cockroaches: _____

(c) Mention any **one** way of controlling cockroaches in a home.

51. The diagram below shows the structure of the human heart. Use it to answer the questions about it.



(a) Identify the part of the heart labeled **X**.

(b) What type of blood is carried by blood vessel marked **W**?

(c) Give **one** function of the blood vessel marked with letter **Y**.

(d) Put an arrow on blood vessel **Z** to show the direction of the flow of blood.

52. (a) Mention any **two** examples of non-renewable energy resources.
(i) _____
(ii) _____

(b) State any **two** ways of conserving non-renewable energy resources.
(i) _____
(ii) _____

53. (a) Give the meaning of the term mulching.

(b) State **one** way how mulching helps to control;

(i) Soil erosion _____

(ii) Growth of weeds _____

(c) Apart from mulching, mention any one method of soil conservation.

54. (a) Name the type of electricity produced from kinetic energy of flowing water at a dam.

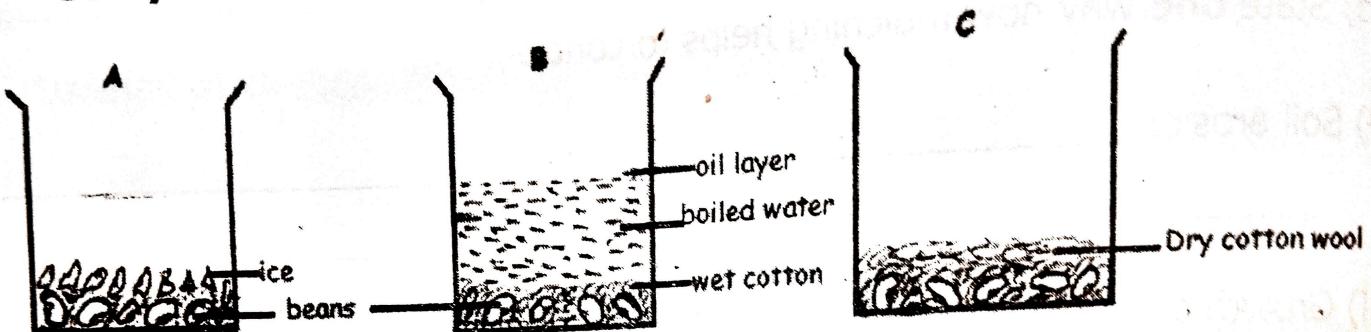
(b) Give any **two** advantages of using electricity.

(i) _____

(ii) _____

(c) Why are electricians advised to wear gloves when installing electricity?

55. The diagram below shows experiments conducted by P.4 pupils about the conditions necessary for seeds to germinate. Study and use it to answer questions about it.



(a) Name the condition necessary for germination absent in **B**.

(b) Why will seeds in containers **A** and **C** not able to germinate?

(i) C: _____

(ii) A: _____

(c) Give a reason why water in container **B** was boiled.

THE END