

TRADITIONAL NORTHERN DIVISION SCHOOLS – MBALE CITY
PRE - MOCK EXAMINATION

2024

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

SCHOOL EMIS NO.						Personal No.		
INDEX No:								

Candidate's Name:

Candidate's Signature:.....

District 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. Answer **ALL** questions. **All** answer to both section **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 answer or work written in pencil other than drawings will **not** be marked.
4. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss** of marks.
5. Do not fill anything in the table indicated:
"FOR EXAMINERS' USE ONLY" and boxes inside the question paper,

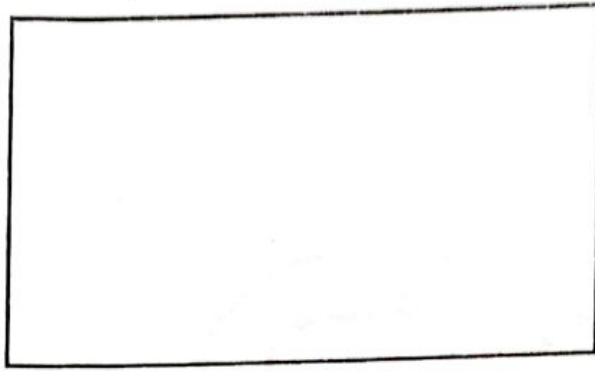
FOR EXAMINERS' USE ONLY		
QN. No.	MARKS	SIGN
1 –10		
11 –20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 –55		
TOTAL		

SECTION A: (40 MARKS)

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

1. Name **one** domestic animal that is kept at home for milk.
.....
2. Give **one** reason it is advisable to cover the nose with a clean handkerchief when one is sneezing.
.....
3. State the reason why wringing is an important activity when washing clothes at home.
.....
4. To which group of invertebrates do the following animals belong?
arachnids, myriapods and insects
.....
5. Mention any **one** way people can preserve wood fuel when cooking.
.....
6. Give a reason why a pit latrine should be dug and constructed at least 30 meters from a water source.
.....
7. Mention **one** environmental factor that increases the rate of transpiration in plants.
.....
8. State **one** reason why a dehydrated person should be given plenty of fluids to drink.
.....
9. Give one reason why a bat makes high pitched sound when flying at night.
.....

15. In the space below, draw an experiment to show that soil has air.



16. State a reason why smoke is able to spread from one corner of a house to another.

.....

17. State **one** way animals promote growth of plants in the environment.

.....

18. Give a reason why cattle farmers are encouraged to carry out dipping of their animals regularly.

.....
.....

19. Name the deficiency disease that is caused due to lack of iodine in a person's diet.

.....

20. State the reason why bats produce high pitched sound when flying at night.

.....
.....



21. Give any **one** advantage of keeping local breeds of cattle over exotic breeds.

.....

22. State a reason why light is seen before sound is heard during a thunderstorm.

.....

.....

The diagram below shows a beak of bird. Study and use it to answer questions **23** and **24**.



23. Name the group of birds with a beak shown above.
-
24. State the reason why the beak above is suitable for the feeding habits of the birds named above.
-
-
25. Name the group of dicotyledonous plants that have root nodules on their roots.
-
26. Give a reason why a person who has been bitten by a snake on the leg should not be allowed to walk immediately after the accident.
-
-
27. State the way the epiglottis prevents choking when a person is swallowing food.
-
-

28. State the reason why pregnant women should be vaccinated against tetanus during ante natal care visits.

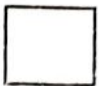
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29. Give **one** way the use production and use of solar electricity is friendly to the environment.

.....
.....

30. Opari wants to pick a needle with a permanent magnet. Give a reason why any of the two poles of the magnet can be used to pick the needle.

.....
.....



31. Name any **one** disease of rabbits that makes them dull with standing fur on the body.

.....

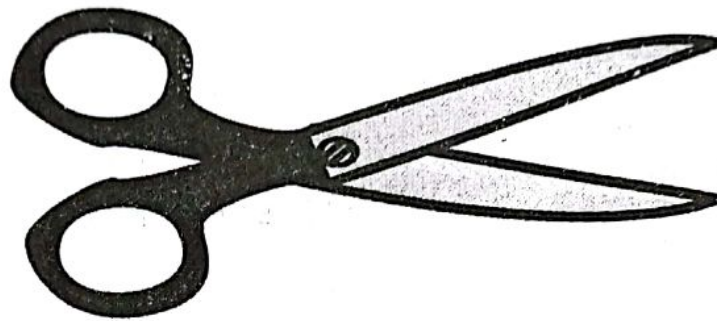
32. State **one** reason why the zero grazing system is suitable for keeping cattle in urban areas.

.....
.....

33. Give **one** secondary sex characteristic common in adolescent boys only.

.....

The diagram below shows a simple machine. Study and use it to answer questions **34** and **35**.



34. Indicate with letter **E** the position of the effort on the machine above.
-
35. State **one** advantage of using first class lever machines where the one in the diagram above belongs.
-
36. Name the mineral a poultry farmer should add to the feeds of layers that lay eggs with soft shells.
-
37. State **one** reason why you would advise a P.7 girl to attend PIASCY lessons at school.
-
38. Give a reason why people apply grease or oil on the hinges of doors of a house.
-
-

39. State the similarity in function between the semi-circular canals in the ear and that of the human brain.

.....

.....

40. Give a reason why the heart of a person beats faster when running than when the person is resting.

.....

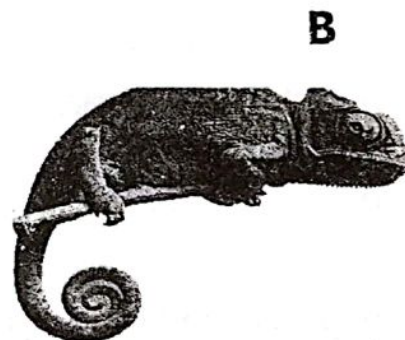
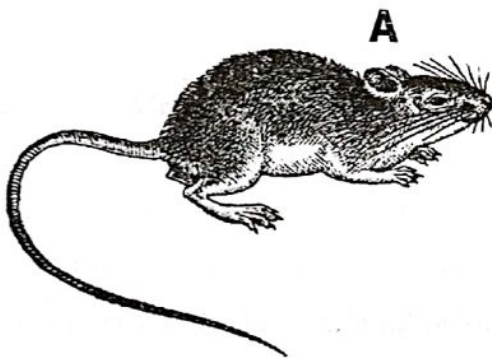
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SECTION B: 60 MARKS



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

41. The diagrams **A** and **B** represent two groups of animals. Study and use it to answer questions that follow.



a) Name the group of vertebrates where animal **B** belongs.

.....

b) Give **two** characteristics of animals in group **A** that make them different from animals in group **B**.

i)

.....

ii)

.....

c) State **one** way animal in diagram **B** is important to crop farmers.

42. a) Mention any **one** by-product of the process of respiration.

b) Give **one** reason why it is advisable to breathe through the nose but not the mouth.

c) Describe what happens to the diaphragm and the ribcage when a person breathes out. (**02 marks**)

43. a) Write **two** characteristics that make rusting of metallic garden tools a chemical change.

i)

ii)

b) Identify **one** method used to make metallic garden tools resist rusting.

c) State **one** effect of rusting of metallic garden tools.



44. a) Give **two** dangers to the environment of using firewood at home for cooking.

i)

ii)

b) Identify the energy change that takes place when wood burns to ash.

.....

c) Write **one** way a school woodlot project reduces deforestation in the school community.

.....

.....

45. a) Identify **two** permanent methods of family planning.

i).....

ii)

b) Give **one** reason why the government is encouraging the use of family planning in Uganda.

.....

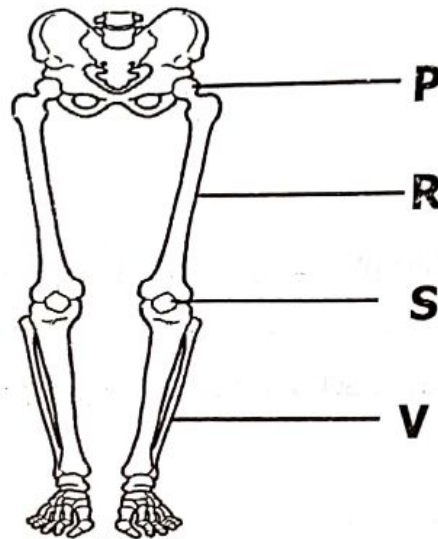
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c) State **one** reason why the artificial family planning methods are not commonly used in rural areas.

.....

.....

46. The diagram below shows part of the skeletal system. Study and use it to answer questions that follow.



- a) Name the bone marked with letter **R**.
R.....
- b) Which joint is found at point **P** and **S**?
P.....
S.....
- c) State **one** way of keeping the skeleton in a proper working condition.



47. a) Mention **one** crop growing practice that prevents loss of water from the soil.

- b) Give **two** advantages of the crop growing practice above.

- i)
- ii)

- c) Why are crop farmers advised to use dry plant materials for the crop growing practice above?

.....
.....

48. a) Give **two** reasons why babies should be weaned from the age of four months.

- i)
ii)

- b) Give **two** reasons why mothers are encouraged to give their babies below four months of age only breastmilk.

- i)
ii)

49. a) Give the meaning of the following terms;

- i) drug abuse

.....
.....

- ii) drug misuse

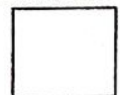
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- b) State **one** reason why taking unprescribed drugs is dangerous to human health.

.....
.....

- c) Why is it advisable to keep drugs out of reach of children?

.....



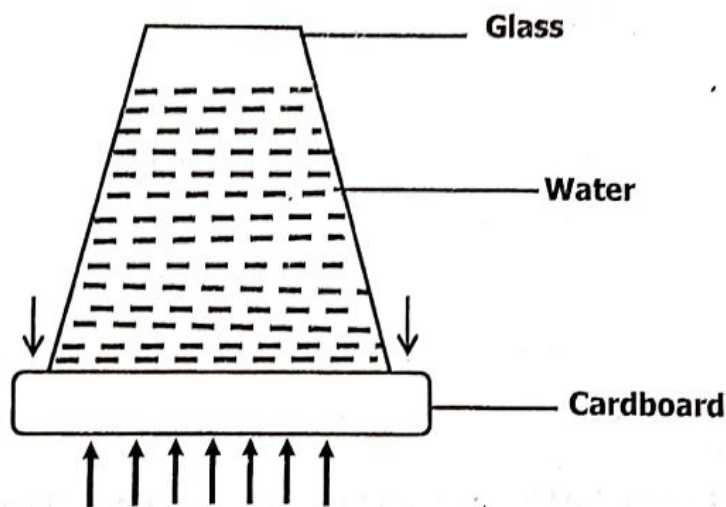
50. a) Name **one** substance bees use for making honey.

b) Apart from being eaten as food, give any other **one** use of honey to people.

c) Give a reason why a person harvesting honey should have a smoker.

d) How does a bee farmer prevent the queen bee from entering the honey chamber in a modern bee hive?

51. The diagram below shows an experiment. Study and use it to answer questions that follow.



a) State the property of air shown above.

b) Give a reason why the cardboard will not fall if the glass is lifted.

c) Apart from the property above, mention **two** other properties of air.

i)

ii)

52. a) Identify any **two** materials that are commonly used on the handles of flat irons.

i)

ii)

b) Give a reason why the materials mentioned above are used on handles of flat irons.

.....

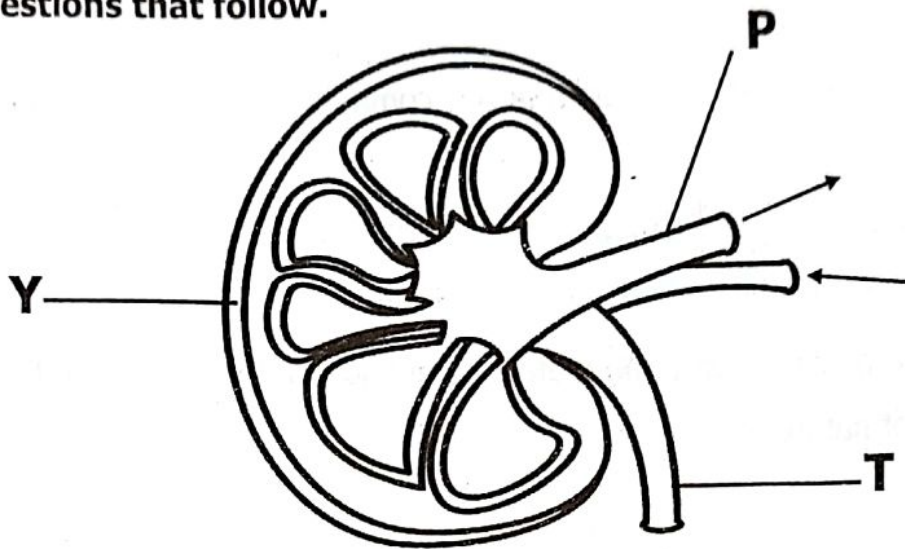
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c) why is the ironing part of a flat iron usually made of metal?

.....



53. The diagram below is of a kidney. Study and use it to answer questions that follow.



a) Name the blood vessel marked with letter **P**.

.....

b) Which process takes place at part marked **Y**?

.....

c) Explain why people urinate more during cold days than hot days. (02marks)

.....

.....

54. a) Give a reason why a person preparing for milking does the following;

i) Washing the bucket with clean water

.....

.....

ii) Washing the udder of a cow with warm water

.....

.....

b) State **one** disadvantage of hand milking.

.....

c) Write down **one** way of caring for a cow that is being milked.

.....
.....

55. a) Name any **two** materials used to produce biogas.

i)

ii)

b) Why is the biogas digester kept air tight during the production of biogas?

.....
.....

c) Give **one** advantage of biogas production to a crop farmer.

.....
.....

END

