

MUKONO MUNICIPAL COUNCIL

MOCK EXAMINATIONS 2023

INTEGRATED SCIENCE

Time Allowed: 2 hours 30 minutes

RANDOM No.

PERSONAL No.

--	--	--	--	--	--	--	--	--

Candidate's Name

Candidate's Signature

School Name

District Name

Read the following instructions carefully:

1. This paper is made up of two Sections: A and B.
2. Answers to both sections must be written in the spaces provided in full sentences.
3. Section A has 40 questions (40 marks)
4. Section B has 15 questions (60 marks)
5. Attempt all questions. All answers to both sections A and B must be written in the spaces provided.
6. All answers must be written in blue or black ballpoint pen or ink but not in pencil. All work done in pencil, except diagrams, will NOT be marked.
7. Crossing out of answers will lead to loss of marks.
8. Any handwriting that cannot be easily read may lead to loss of marks.
9. Wrong spelling will lead to loss of marks.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXRS' NO.
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

1. Name any **one** agent of soil erosion in the environment.

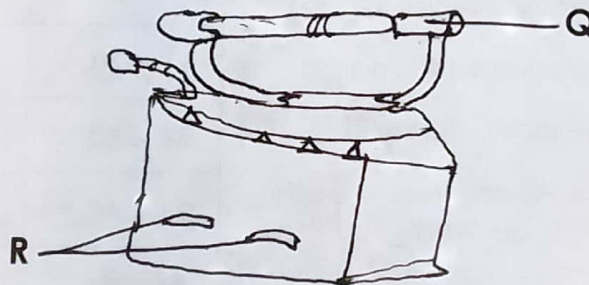
2. State any **one** way in which record keeping helps a farmer who keeps pigs

3. Give any **one** way in which the pancreas is useful during food digestion.

4. Name the part on the stem of a flowering plant from which leaves and side branches develop from.

5. How does poor disposal of faeces lead to easy spread of diarrhoeal diseases?

The diagrams below shows an iron box. Study and use it to answer questions 6 and 7.



6. State the function of the holes marked R on the iron box above.

7. Why is part marked Q made of wood?

8. State any **one** way in which fossil fuels can be conserved.

9. Give the function of a queen excluder in a modern beehive.

10. Identify any **one** sign and symptom of anemia in children

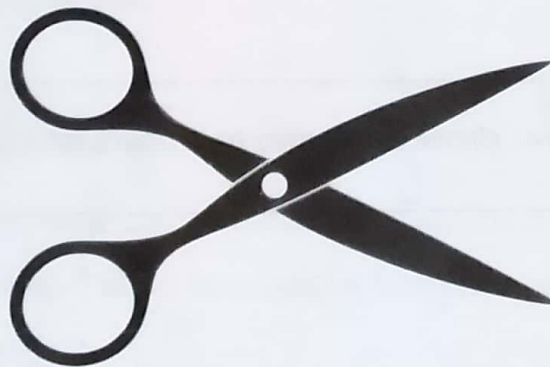
11. Outline any **one** reason why it is advisable to shave the hair in the pubic region and under the arm pit

12. Give any **one** use of filtration at home.

13. Apart from taking a wrong dose, mention **one** other way in which people misuse drugs.

14. Why are valves important in the veins?

The diagram below shows a simple machine. Study and use it to answer questions 15 and 16.



15. By use of letter k, show the pivot.

16. Which class of lever is shown above?

17. Mention **one** way a person can prevent clothes from staining other clothes during the processes of cleaning.

18. Identify any **one** way in which school children can promote health education as a primary health Care activity in the school

19. State any **one** biological way of controlling the spread of malaria at home.

20. Identify any **one** activity that members of a Scouts club can do to protect invertebrates within the environment

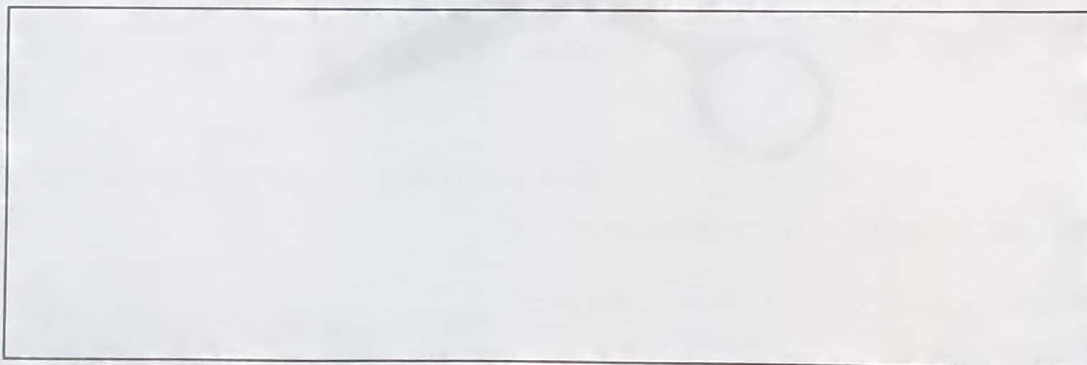
21. State any **one** advantage of the use of suckers over the use of seeds in plant propagation

22. Give one way in which litter in a poultry house prevents eggs from breaking.

23. How are the suckers useful to the tapeworms?

24. State the importance of boiling water when preparing safe water for drinking

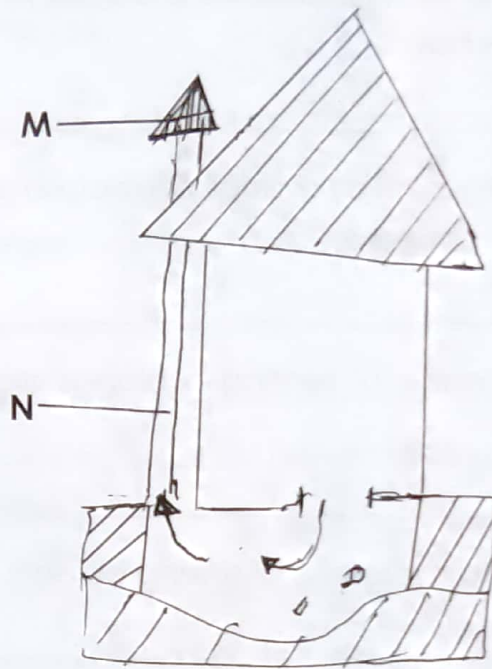
25. In the space below, draw a garden tool used for cutting trees.



26. Mention **one** reason why a farmer may prefer growing perennial crops over annual crops

27. State **one** element of Primary Health Care that helps to control infant mortality rates.

The diagrams below is of a ventilated improved pit latrine. Study and use it to answer questions 28 and 29.



28. Name the part marked **N**.
29. How is part **M** adapted to its function?
30. Give any **one** method used to prepare food at home.
31. Identify any **one** way in which a farmer can detect a disease outbreak in a vegetable garden
32. How can gonorrhoea re-infection be prevented in a married couple?

33. Why is a drenching gun useful to a cattle farmer?

34. Mention any **one** importance of trees to other crops in agro forestry

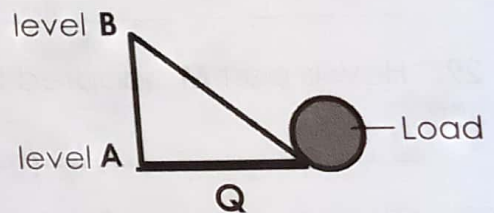
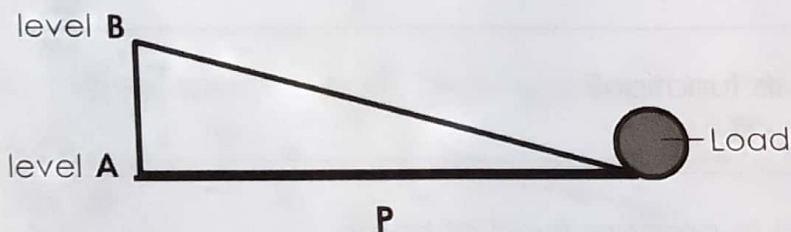
35. State the property of air that enables a barber to use aerosol spray after trimming a person's hair.

36. Give any **one** way in which a P.7 pupil can help in promoting immunization programs in the community.

37. What is the importance of sealing a biogas digester tightly during its production?

38. Mention any **one** characteristic of sinking objects.

The diagrams below are of two inclined planes P and Q used to raise the same load from level A to level B. Study and use them to answer question 39.



39. Identify the inclined plane that will require more effort to lift the load from level A to level B

40. Why is water useful during seed germination.

SECTION B: 60 MARKS

41. a) Name the type of natural fertilizers that are made from kitchen refuse like banana and sweet potato peelings.

- b) Give any **two** advantages of using natural fertilizers over artificial fertilizers in the soil.

(i) _____

(ii) _____

- c) State one effect of plastics on the soil.

42. a) Apart from chinchilla rabbits, mention **two** other exotic breed of rabbits kept by farmers

(i) _____

(ii) _____

- b) Why should rabbit hutches be constructed. With a slanting floor?

- c) Which disease in rabbits is shown by rough hair, swollen stomach and passing out of blood stained stools?

43. a) Name any **two** enemies of bees

(i) _____

(ii) _____

- b) Identify any **one** practice that can help to control pests of bees in an apiary

SECTION B: 60 MARKS

41. a) Name the type of natural fertilizers that are made from kitchen refuse like banana and sweet potato peelings.

- b) Give any **two** advantages of using natural fertilizers over artificial fertilizers in the soil.

(i) _____

(ii) _____

- c) State one effect of plastics on the soil.

42. a) Apart from chinchilla rabbits, mention **two** other exotic breed of rabbits kept by farmers

(i) _____

(ii) _____

- b) Why should rabbit hutches be constructed. With a slanting floor?

- c) Which disease in rabbits is shown by rough hair, swollen stomach and passing out of blood stained stools?

43. a) Name any **two** enemies of bees

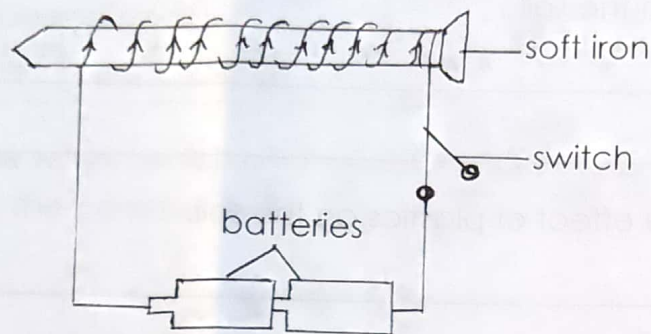
(i) _____

(ii) _____

- b) Identify any **one** practice that can help to control pests of bees in an apiary

c) How do bean plants depend on bee?

44. The diagram below shows a method of making magnets. Study and use it to answer question 44.



a) Name the method of making magnets shown in the diagram above.

b) State **two** ways of increasing the strength of the magnet made using the above method.

(i) _____

(ii) _____

c) Name any **one** device that uses such magnets to function.

45. a) Name the method used to alcohol

b) Why is yeast used during fermentation of water and sugar?

c) State any **two** effects of alcoholism to an individual.

(i) _____

(ii) _____

46. The diagrams below show a list of invertebrates. Study and use them to answer question 46.



R



S



T

- a) Identify the group of invertebrates to which the following organisms above belong
- (i) **R** _____
- (ii) **S** _____
- b) Mention any **two** ways in which the soil organism **T** is important in the environment
- (i) _____
- (ii) _____
47. a) Identify the type of muscle to which the Muscles of the esophagus belong.
- _____
- b) Mention any **one** use of muscles in the human body.
- _____
- c) State any **one** importance of the following tissues in the muscular and skeletal system
- i. Tendons
- _____
- ii. Cartilage
- _____

48. The table below shows diseases, their vaccines and the germs that cause the diseases. Complete the table by filling the blank spaces correctly.

Disease	Germ	Vaccine
a) Measles	Measles and vaccine
b) Polio	Polio vaccine
c)	Bacteria	BCG Vaccine
d) Hepatitis B	Hepatitis B Vaccine

49. a) Give **one** reason why food kept in a refrigerator stays safe for a longer period of time.

- b) Mention any **one** example of a useful fungi.

- c) Apart from making food go bad, identify any **two** other dangers of fungi to humans

(i) _____

(ii) _____

50. a) Give any **two** primary sex characteristics that occur in adolescent boys.

(i) _____

(ii) _____

- b) Mention one permanent method of family planning in males.

- c) How do children protect themselves from AIDS/HIV?

51. a) State the use of teeth in digestion.

b) How are the incisors teeth adapted to their function?

c) Name any **one** disease that affects the human teeth.

d) How do you care for your teeth?

52. a) Identify **one** method by which the following parts of a vacuum flask control heat loss or gain.

i. Silvered walls _____

ii. The vacuum _____

b) How do you care for a vacuum flask?

c) Give the use of a vacuum flask at home.

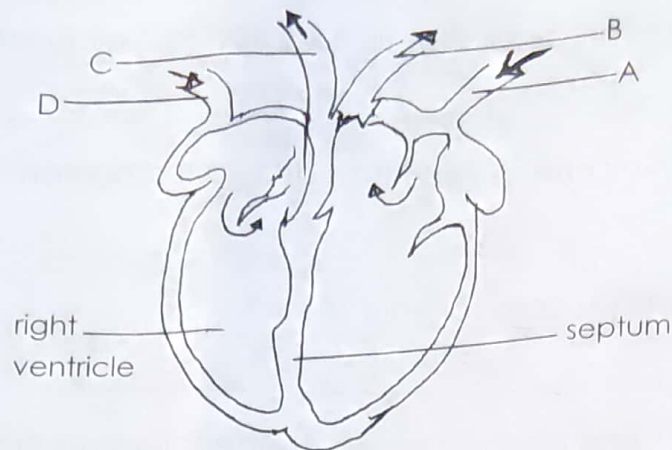
53. a) Why are irish potatoes grouped under stem tubers?

b) Apart from irish potatoes, mention **one** other example of a stem tuber

c) Name the food value obtained from eating irish potatoes.

d) State any **one** way of caring for stem tubers in the garden.

54. The diagram below is of the human heart. Study and use it to answer question 54.



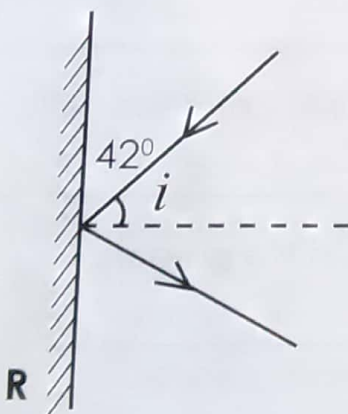
a) Name part marked **B** and **D**;

- i) **B** _____
ii) **D** _____

b) To which body part does blood transported by part **C** lead to?

c) State the difference in blood transported by blood vessel A and blood vessel B

55. The diagram below shows reflection of light. Study and answer question 55.



a) Identify surface marked R

b) Calculate the angle of reflection.

c) Give any one use of reflection to people.

END