

MUKONO MUNICIPAL COUNCIL

MOCK EXAMINATIONS 2023

INTEGRATED SCIENCE

Time Allowed: 2 hours 30 minutes

RANDOM No.

PERSONAL No.

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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. Identify any one agent of soil erosion in the environment.

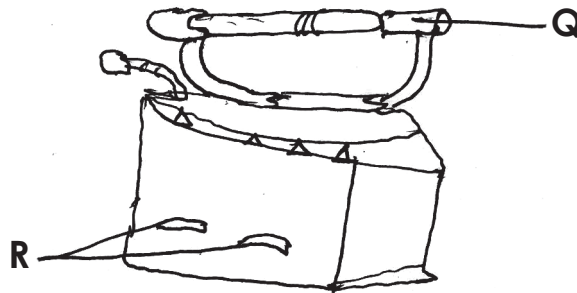
2. State one way in which record keeping helps a farmer who keeps pigs

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 the 6 and 7 that follow.



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 one function of a queen excluder in a modern beehive.
-
10. Identify any one sign and symptom of anemia in children
-
11. Mention any one reason why it is advisable to shave the hairs in the pubic region and under the arm pit
-
12. Mention any one use of local ash solution in the preparation of local dishes
-
13. Apart from taking a wrong dose, mention one other way in which people misuse drugs.
-
14. Why are valves important in the veins?
-
15. Name the part of the human ear that converts sound waves into nerve impulses.
-
16. State one reason why physical methods are more advisable than chemical methods in control of pests of tuber crops
-
17. Mention one way a person can prevent clothes from staining other clothes during the process of washing.
-
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?

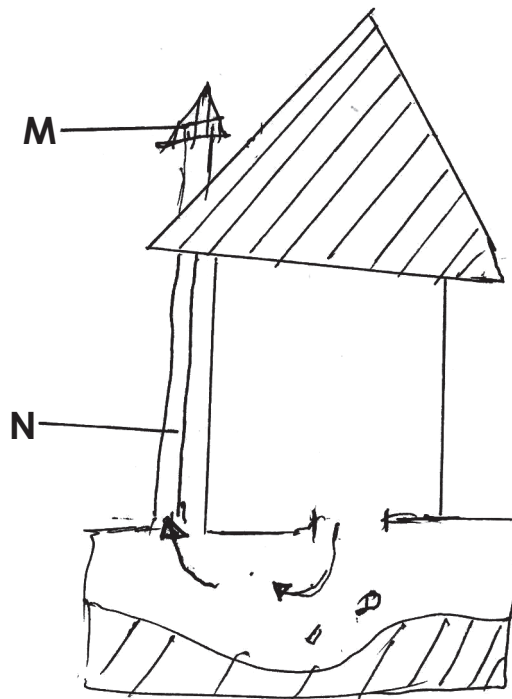
24. State the importance of boiling water when preparing safe water for drinking

25. Why is it important to loosen the victim's clothes when administering first Aid to a fainted person?

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 the questions 28 and 29.



28. Name the part marked N.

29. How is part M adapted to its function?

30. State one reason why a person preparing posho sprinkles some flour in water when it becomes hot.

31. Identify any one way in which a farmer can detect a disease outbreak in a vegetable garden

32. How can gonorrhea re-infection be prevented in a 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

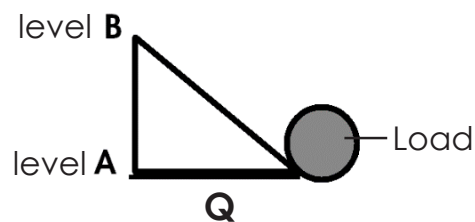
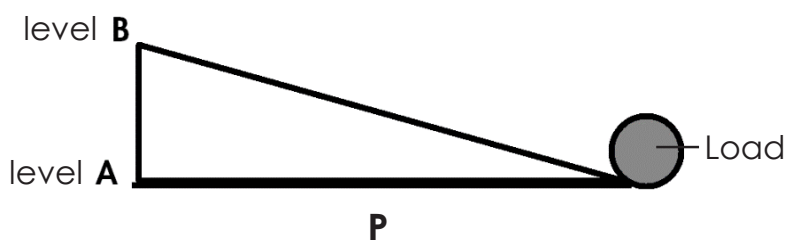
35. State the property of air that enables a barber to use aerosol spray after trimming a person's hair.

36. Given 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 use?

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 optimum temperature useful during seed germination.

SECTION B

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 diseases 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) _____

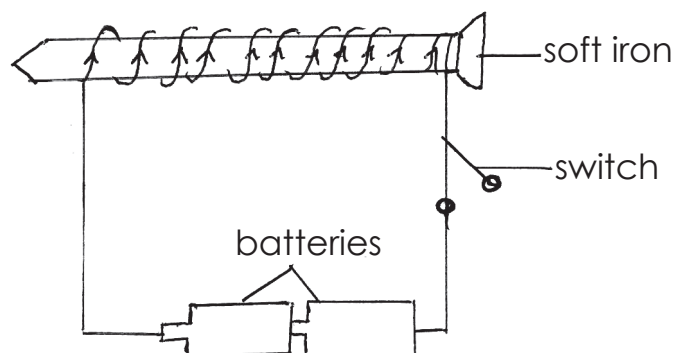
(ii) _____

- b) Identify any two practices that can help to control pests of bees in an apiary

(i) _____

(ii) _____

44. The diagram below shows a method of making magnets. Study and use it to answer the questions that follow.



- 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.
- _____
- c) Why are such magnets used in lifting metal scraps?
- _____
45. a) Name one method of making alcohol apart from fermentation method.
- _____
- b) Why is yeast used during fermentation of alcohol?
- _____
- c) States any two health effects of alcoholism to an individual.
- (i) _____
- (ii) _____

46. The diagrams below show a list of invertebrates. Study and use them to answer the questions that follow



R



S



T

- a) Identify the group of invertebrates to which the following organisms above belong

R _____

S _____

- b) Mention any two ways in which 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 uses of muscles in the body

- c) State any one importance of the following tissues in the muscular and skeletal system

i. Tendons _____

ii. Cartilage _____

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

Disease	Germ	Vaccine
a) Measles	Measles and vaccine
b) Polio	Polio vaccine
c)	Bacteria	BCG
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 harmful fungi.

- c) Apart from food spoilage, 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) Identify any one protozoon disease of the human reproductive system.

51. a) Apart from food spoilage, identify any two other dangers of fungi to humans

- b) State any one use of incisors to humans.

- c) How are the incisors teeth adapted to their function?

- d) Write down any one disease that affects the human teeth.

52. a) Identify one method by which the following parts of a vacuum flask control heat loss or gain.
- i. Silvery surface _____
- ii. The vacuum _____
- b) State the reason why heat travels fastest through gases by convection

- c) Give any one use of a vacuum flask at home

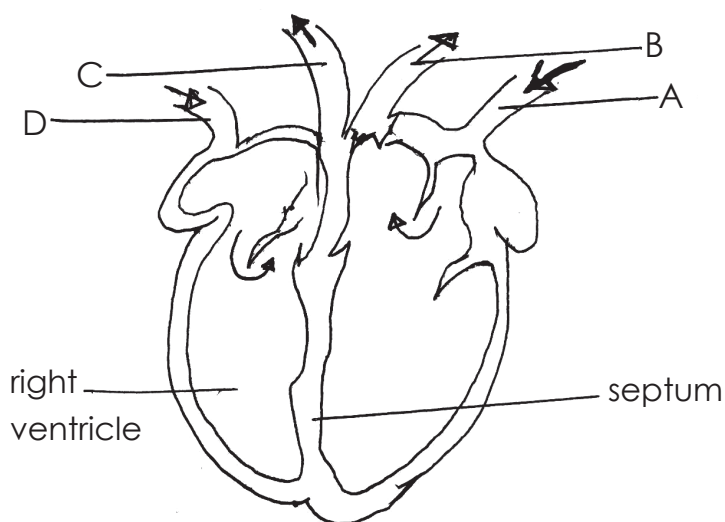
53. a) Why are irish potatoes grouped under stem tubers?

- b) Apart from irish potatoes, mention one other examples 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 the questions that follow.



a) Name part marked;

- 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. a) State one function of the hair found in the nostrils of the human respiratory system

b) State what happens to the following during breathing out

- i) The diaphragm. _____
- ii) The pressure inside the chest cavity _____

c) Mention any one non – infectious disease of the human respiratory system.

END