

# MUKONO MUNICIPAL COUNCIL

## MOCK EXAMINATIONS 2022

### 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. Mention any one component of soil.

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2. Mention any one function of the human skin

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3. Name one epidemic disease that can breakout in your community with poor sanitation

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4. Name the group of tuber crops to which a coco yam belongs

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5. State any one use of snakes to man

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6. Identify any one part to look at when cleaning your teeth

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7. Name one type of mechanical energy

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8. State the reason why the rate of soil erosion is higher in mountainous areas

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9. State one reason why it is advisable that children participate in keeping their environment clean

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10. Identify the mineral missing in the diet of a child suffering from goitre

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11. Name the state of matter in which a material with a definite volume but no fixed shape belongs

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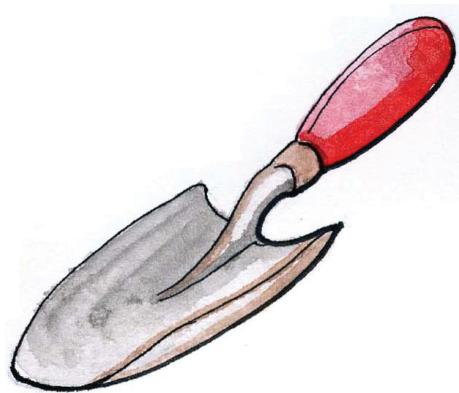
12. State the function of the septum in the human heart

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13. Define an epidemic

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Below is a drawing of a garden tool. Use it to answer question 14 and 15



14. Name the garden tool

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15. State the function of the garden tool

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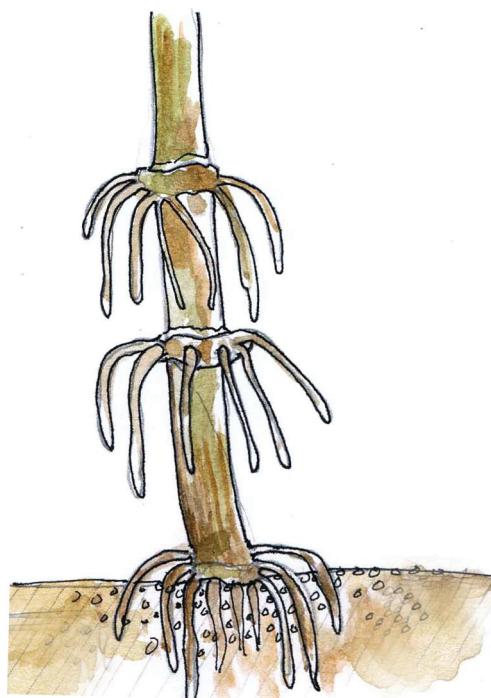
16. Mention any one condition under which a mother may be stopped from breastfeeding the baby

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17. An alcoholic drink is labelled 40%. State what that means

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Below is the structure of the root system in a plant. Use it to answer questions 18 and 19



18. Name the type of roots in the plant above

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19. Identify the type of root system in the plant above

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20. State any one reason why immunization is considered as a Primary Health Care practice

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21. State one reason why physical methods of pest control are preferred to chemical methods

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22. State any one reason why it is advisable for men to be circumcised

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23. Mention any one way in which a health club in schools can reduce the outbreak of diseases in the school

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24. Name the type of change that takes place when fruits ripen

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25. State any one importance of bacteria to man

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26. State how the hairy body of the housefly is important in spreading diseases

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27. State why in resting an arm using an arm sling, the forearm and upper arm should be rested at  $90^{\circ}$

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Below is an instrument used to measure the temperature of a person.



28. Record the temperature of the person

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29. State why the doctor said the person was not normal

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30. State why it is important to sprinkle water on plant materials when making compost manure

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31. State the role of plants in a food chain

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32. Name the muscular organ that separates the chest cavity from the abdomen in humans

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33. Mention any one importance of information gathered through a health survey in a community

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34. Identify any one human activity that results into flooding of water bodies

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35. Name the group of arthropods to which ticks belong

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36. An organism has the following characteristics; cannot make its own food, reproduces by the use of spores, is made up of many cells. Name the group of living things to which it belongs

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37. Apart from the magnetic method, mention any one method of storage and reproduction of sound

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38. Name the type of immunity that a baby gets after being immunized

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39. Name any one vaccine against COVID-19

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40. State what you understand by the efficiency of a simple machine

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## **SECTION B (60 Marks)**

41. a) Define personal hygiene?

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- b) State the importance of the following processes while cleaning clothes

i. Ironing \_\_\_\_\_

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ii. Soaking \_\_\_\_\_

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- c) Identify any one disease that can be spread in a school due to poor cleanliness of beddings

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- 42 a) Mention any two functions of muscles

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

- b) State what happens to the following muscles when the fore arm is folded

triceps \_\_\_\_\_

biceps \_\_\_\_\_

43. Match the list of internal organs in humans in A to their functions in list B.

A

Kidney

Brain

liver

lungs

B

exchange of gases

produces bile

produces urine

stores information

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44. The following are processes that lead to hearing in humans. Arrange them in their correct order

- The cochlea changes the vibrations into nervous impulses
  - The pinna receives sound vibrations and directs them to the eardrum
  - Vibrations are transmitted through the ear ossicles to the inner ear
  - Message are sent through the auditory nerve to the brain for interpretation
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45. In a slum in Mukono, there are many people living in a small area. There are no proper pit latrines and toilets. The place is littered with many used polyethene bags

- a) Identify any two environmental problems that can result from this situation

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

- b) Identify any two ways in which the people in the area above can control these environmental problems

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

46. a) Name the germ that causes COVID 19

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b) Identify any one sign and symptom of COVID 19

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c) Mention any two ways of controlling the spread of COVID 19 in a school

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

47. a) Name the group of worms to which the following intestinal worms belong

i. Hookworm \_\_\_\_\_

ii. Tapeworm \_\_\_\_\_

b) Identify any two ways of controlling the spread of Bilharzia in a community

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

48. a) Mention any two practices that can prevent contamination of food in a school

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

b) Name any two diseases that can be transmitted through contaminated food

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

49. a) Mention any two benefits of keeping pigs

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

b) Identify any two advantages of keeping pigs over keeping cattle

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

50. a) Apart from the free-range system, name two other methods of keeping poultry

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

b) Explain why poultry easily get infected in the free-range system  
(2 marks)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

51. a) Mention any two methods of extracting honey

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

b) State the importance of the following in a Kenyan Top bar hive

Queen excluder \_\_\_\_\_

Top bar \_\_\_\_\_

52. a) Name any two materials that can be used to make compost manure in your community

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

b) Identify any two advantages of organic manure over inorganic fertilizers

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

53. a) Name the state of matter in which heat travels fastest by;

Conduction \_\_\_\_\_

Convection \_\_\_\_\_

b) Explain the reason why the inner walls of the glass in a vacuum flask are painted silver (2 marks)

\_\_\_\_\_

54. A machine lifts a load of 3000N through a distance of 0.5m when an effort of 1000N is applied through a distance of 2m. calculate;

a) The Mechanical advantage of the machine (2marks)

b) The velocity ratio of the machine (2marks)

55. Match the plants in A with how they reproduce in B

A

B

Mango reproduces by fragmentation

Fern produces seeds but without flowers

Christmas tree produces seeds and have flowers

Algae reproduces by the use of spores

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