



**MITOOMA DISTRICT EXAMINATIONS BOARD**  
**PRIMARY LEAVING MOCK 2022**  
**INTEGRATED SCIENCE**

**TIME ALLOWED 2 HOURS 15 MINUTES**

**INDEX NO**

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Candidate's Name: .....

Candidate's Signature .....

School Name: .....

Sub-county: .....

**Read the following instructions carefully.**

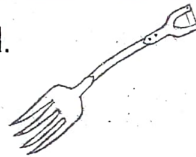
1. This paper has **two** sections **A** and **B**.
2. Answer **ALL** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
3. All answers must be written using a blue or black ball– point pen or ink. Only diagrams should be drawn in pencil.
4. Unnecessary changes of work may lead to loss of marks.
5. Any handwriting that can not easily be read may lead to loss of marks.
6. Do **not** fill anything in the boxes shown “for **Examiners’ use only**”. and those inside the question paper.

For Examiners' only		
Qn. No	Marks	Examiner's No.
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

## SECTION A

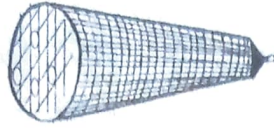
1. Name the human body organ that helps it to cool down on a hot day.  
\_\_\_\_\_
2. Why is it necessary to paint metallic objects?  
\_\_\_\_\_
3. Which food value is digested in the stomach?  
\_\_\_\_\_
4. Name one rabbit disease that affects ears.  
\_\_\_\_\_
5. Name the vector that spreads Bilharziasis to people.  
\_\_\_\_\_
6. How do electricians protect their hands from shock when installing electricity? \_\_\_\_\_
7. Why are groundnuts grouped under Legumes?  
\_\_\_\_\_
8. Which method of soil formation needs the action of Bacteria?  
\_\_\_\_\_
9. How does the human ear protect itself from entry of foreign bodies?  
\_\_\_\_\_

The diagram below shows a garden tool.  
Use it to answer questions 10 and 11



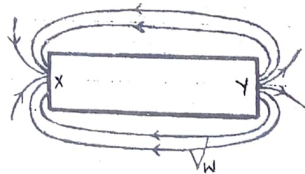
10. Name the garden tool shown above.  
\_\_\_\_\_
11. Of what use is the garden tool to a farmer?  
\_\_\_\_\_
12. Which sanitary equipment is used for proper drying of washed utensils at your home?  
\_\_\_\_\_
13. State any one way ferns are similar to bean Plants.  
\_\_\_\_\_
14. Name any one water borne disease that affects the skeletal system  
\_\_\_\_\_
15. Why should pit latrines be built at least 10 metres from living houses?  
\_\_\_\_\_
16. How is a strip cup useful to a cattle farmer?  
\_\_\_\_\_
17. Why is a wheelbarrow grouped under the second class of levers?  
\_\_\_\_\_
18. In which way is Penicillium mould important to a scientist?  
\_\_\_\_\_

The diagram below shows a bee hive. Use it to answer questions 19 and 20



19. Name the kind of traditional bee hive shown above.  
\_\_\_\_\_
20. State any one disadvantage of using the above kind of bee hive.  
\_\_\_\_\_
21. How are cassava plants commonly propagated in your community?  
\_\_\_\_\_
22. Of what importance is a forked tongue to reptiles like snakes?  
\_\_\_\_\_
23. Why do we hear thunder after seeing lightning?  
\_\_\_\_\_
24. Give the scientific name of product from distillation.  
\_\_\_\_\_
25. State one primary change in adolescent boys.  
\_\_\_\_\_
26. Which Vitamin controls Beriberi in human beings?  
\_\_\_\_\_
27. How is an anemometer useful at a weather station?  
\_\_\_\_\_
28. Why do people preparing charcoal cover pieces of wood with soil?  
\_\_\_\_\_
29. Name one requirement needed for both photosynthesis and germination to occur.  
\_\_\_\_\_
30. Why do female Anopheles mosquitoes feed on blood?  
\_\_\_\_\_
31. State any one reason for debeaking Poultry.  
\_\_\_\_\_

The diagram below shows a bar magnet  
Use it to answer questions 32 and 33



32. Name the pole marked Y  
\_\_\_\_\_
33. What do we call the lines marked W?  
\_\_\_\_\_
34. Give the type of root system possessed by an onion plant.  
\_\_\_\_\_



35. Why is it difficult to write on an oiled piece of paper?

36. What structures help to control rodent pests on a granary?

37. State any one danger of throwing broken bottles in the play ground.

38. Calculate the mass of an irregular object whose density is  $2\text{g/cc}$  and volume is  $10\text{ cc}$ .

39. How is the function of the film on a lens camera similar to that of the retina in the human eye?

40. Name any one practice carried out to promote oral hygiene.

## SECTION B

41(a). Why is water regarded as matter?

b. Give any two states of matter.

(i)

(ii)

c. How does heat travel through a piece of metal?

42(a). Name the body organ that rolls food in the mouth to form bolus.

b. By what process does the bolus move from the mouth to the stomach?

c. Name any one substance that is absorbed in the colon.

d. How is bile different from other digestive juices?

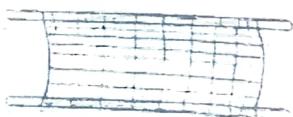
43(a) Name any two accidents caused by heat.

(i)

(ii)

b. Why is it important to check the pulse of the victim before giving first aid?

c. How is the structure drawn below important in giving first aid?



44(a). What term refers to the process of destroying the power of a magnet?

b. State two ways a P.7 candidate can destroy the power of a bar magnet.

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

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

c. Name any one method of making magnets.

45 The table below shows child hood immunisable diseases study and complete it correctly

Age	Disease	Site	Mode of vaccine administraiton
At birth	Polio	Mouth	(i) _____
(ii) _____	Measles	Left upper arm	Injection
6, 10, 14 weeks	Diphtheria	(iii) _____	Injection method
At birth	(iv) _____	Right upper arm	Injection method

46(a). What is food preservation?

b. Give any two methods of preserving fish locally.

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

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

c. Give any one reason for preserving food.

47(a). What type of germ causes covid 19?

b. State two measures of controlling the spread of covid 19 in a classroom.

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

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

c. Which class of food is best suitable for a covid 19 patient.



48 Match parts of an electric circuit in A with their functions in B

A	B
Bulb	breaks and completes the circuit
Switch	produces electricity
Battery	breaks the circuit when current is high
Fuse	produces light energy

- (i) Bulb: \_\_\_\_\_
- (ii) Switch: \_\_\_\_\_
- (iii) Battery: \_\_\_\_\_
- (iv) Fuse: \_\_\_\_\_

49. A farmer cultivates while burying legumes into the soil.

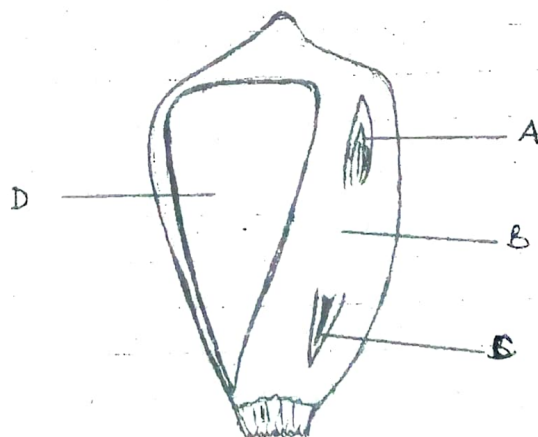
a Name the kind of manure that soil will obtain.

b A part from the type of manure stated in (a) above, give other two examples of organic manure.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

c How does mulching improve soil fertility? \_\_\_\_\_

50 The diagram below shows a maize grain. Use it to answer the questions about it.



a Name the part marked B

\_\_\_\_\_

b To which system of a plant does the part marked A develop?

\_\_\_\_\_

c How is the part marked D useful to the maize grain?

\_\_\_\_\_

d. Why is the above grain called a fruit?

\_\_\_\_\_

51(a) What is an energy resource?

\_\_\_\_\_

b. Write down any two energy resources used in cooking food

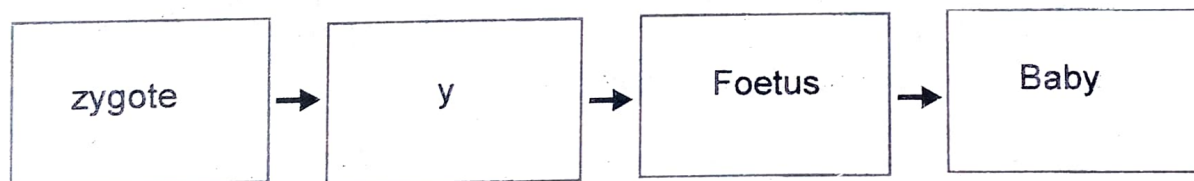
(i) \_\_\_\_\_

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

c Give one reason why one should cover food while cooking.

\_\_\_\_\_

52 The diagram below shows stages in a type of change in mammals.  
Use it to answer the questions about it.



a. What type of change is shown above?

\_\_\_\_\_

b. Give any one example of the above type of change in animals.

\_\_\_\_\_

c. Name the stage represented by y

\_\_\_\_\_

d. Which of the above stages is formed during fertilization?

\_\_\_\_\_

53(a) Mention any two examples of Wedges as simple Machines.

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

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



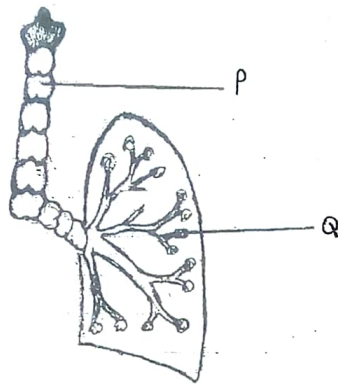


b In which two ways are Wedges useful at home

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

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

54 The diagram below shows the human body organ. Use it to answer questions about it.



a. To which two body systems does the organ above belong?

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

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

b. Name the process that takes place in part marked Q

\_\_\_\_\_

c. Why can't part marked P close in the process of breathing in and out?

\_\_\_\_\_

55a) Why should primary school pupils abstain from sex?

\_\_\_\_\_

\_\_\_\_\_

b. In which one way can you help your friend to abstain from sex?

\_\_\_\_\_

\_\_\_\_\_

c. Apart from abstaining from sex, state any other two PIASCY messages.

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

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

**-END-**

