

BMMK EXAMINATION BOARD

PLE MOCK EXAMINATION, 2024

INTEGRATED SCIENCE

TIME ALLOWED: 2HRS 30 MINUTES



EMIS No..					PSersonal No.		

INDEX NO.

CANDIDATE'S NAME: _____

CANDIDATE'S SIGNATURE: _____

SCHOOL NAME: _____

SUB-COUNTY/DIVISION: _____

Read the following instructions carefully.

1. This paper has two sections; **A** and **B**
2. Section **B** has 15 questions (60marks)
3. Answer **ALL** questions in section **A** and Section **B**. answer must be written in the Space provided.
4. All answers must be written using a blue Or black ball-point pen or ink. Only diagrams may be done in pencil.
5. Unnecessary alteration of work may lead to loss of marks
6. Any hand writing that cannot easily be read may lead to loss of marks

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

1. Name the gas used in fire extinguishers.

2. State any one disease controlled by draining stagnant water.

3. Name the part of a mango flower that develops into a fruit.

4. Apart from weathering, in which other way is soil formed.

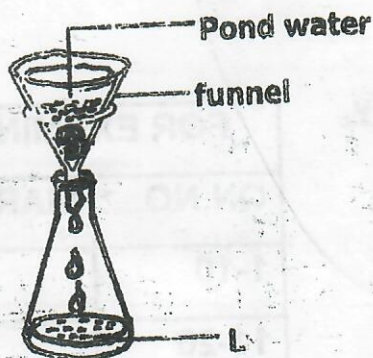
5. Give any one way in which annual crops can be harvested from the garden.

6. State how plants help to purify air in the environment.

7. Name the organisms which normally grow on bread when kept for so long.

8. Give any one disease that affects the organ for sight.

The diagram below shows a method of separating mixtures. Use it to answer question 9 and 10.



9. Name the method of separating mixtures above.

10. State any one way how you can make water collected at L safe for drinking.

11. State the reason why the volume of a mango is measured using displacement method.

12. Give the importance of a strip cup to cattle keepers.

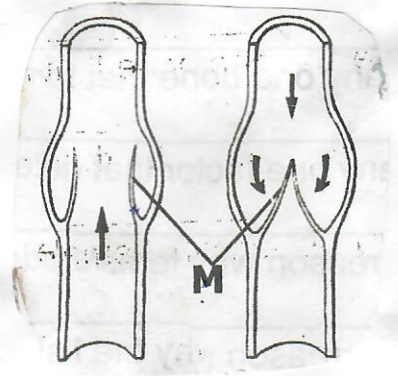
13. Which part of the house lets out bad air?

14. How do tape worms enter the human body?

15. Name the part of a flower that produces pollen grains.

16. Apart from laying eggs, give one other way in which a tilapia is similar to a newt in the way they produce.
-

The diagram below shows a blood vessel. Study it and answer questions 17 and 18.



17. State the blood vessel shown in the diagram above.
-
18. Give the function of M in the diagram.
-
19. Why does a brooding hen turn her eggs during incubation?
-
20. State any one vaccine administered to babies at the age of 2½ months.
-
21. State any one factor to consider when selecting a breed of goats to rear.
-
22. Give any one role of school children in promoting PIASCY programme at school.
-
23. State any one characteristic of a root tuber crop.
-
24. Why are green stick fractures common in babes?
-
25. Name the body organ responsible for removing urine from the body.
-
26. State any one way how simple machines simplify work?
-
27. Give any one type of chicken kept by farmers.
-
28. Write down any one activity that can be done to control weather disasters in your area.
-
29. Give any one way you can promote good health life styles.
-
30. Name the type of pulley used when hoisting a flag on a pole.
-
31. State any one way of preventing the spread of ringworm infection.
-

32. Give any one role of Village Health Teams (V.H.Ts) in your community.

33. Mention any one way in which charcoal is useful to a person filtering water.

34. Why does a ball point pen fail to write on a piece of paper smeared with the jerry?

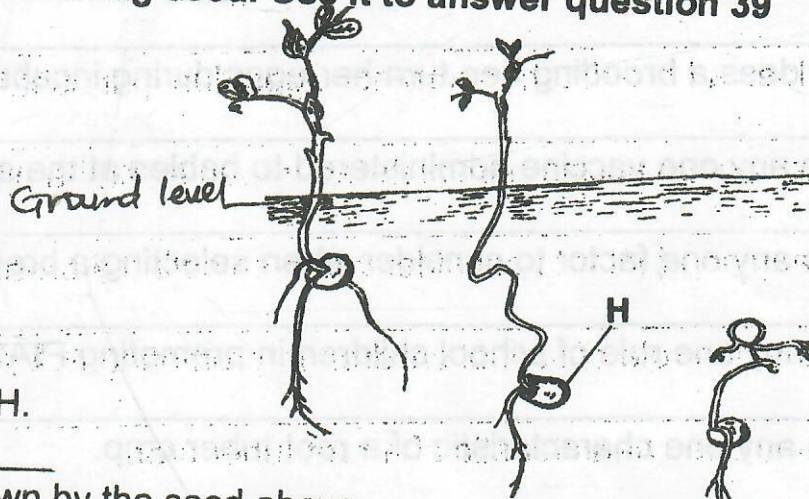
35. Name any one bone that forms a joint at the elbow.

36. State any one factor that determines the weight of an object.

37. Give a reason why female adolescents should be fed on foods rich in iron?

38. State the reason why the fish lay vey many eggs.

The diagram below shows a germinating seed. Use it to answer question 39 and 40.



39. Name the part of the seed marked H.

40. Identify the type of germination shown by the seed above.

SECTION B (60MKS)

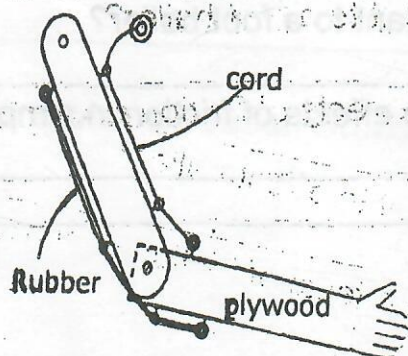
41. a) Name the part of the top bar hive that;
i) stores honey

ii) stores eggs

45. State any one factor that makes honey bees to look for a new hive.

How is the queen excluder able to prevent the queen bee from entering the honey chamber?

42. The diagram below shows a model of the human arm. Study and use it to answer the questions that follow.



a) Identify the body system represented by the cord and rubber.

b) What type of human body muscles are represented in the model above?

c) What happens to the following when the plywood is raised?

i) Cord

ii) Rubber

43. a) State what happens when wood is burnt in

i) Plenty of air

ii) Limited supply of oxygen.

b) Give any two uses of wood fuel at home

i)

ii)

44. a) Name any two examples of amphibians.

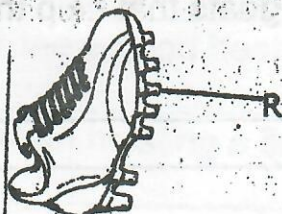
i)

ii)

b) Which type of fertilization do amphibians undergo?

c) State the reason why amphibians lay very many eggs

45. The diagram below is of a sports shoe. Use it to answer questions that follow.



a) Name the structures marked R.

b) How are structures marked R important to a foot baller?

c) State any two ways of controlling the effects of friction in simple machines.

- i) _____
ii) _____

46. a) What are farm records?

b) Give any two examples of records kept on a cattle farm.

- i) _____
ii) _____

c) How are farm records important to a cattle farmer?

47. The table below is about seed or fruit dispersal in plants. Study it carefully to complete it correctly.

Seed or fruit	Mode of dispersal	Adaption
		has hooks to attach its self on the body of animals
Cotton seeds	Wind dispersal	
	Self-explosive mechanism	Pods split violently open when dry.

48. a) Name the process by which plants make their own food.

b) state the importance of the following during photosynthesis.

- i) Sunlight _____
ii) Chlorophyll _____

c) Why do plants carry out photosynthesis during the day?

49. a) Give any two farm management practices in goats that help the farmers to identify his/her goats.

- i) _____
ii) _____

b) Mention any one tool used to castrate goats.

c) State any one way of controlling external parasites in goats.

50. a) State any one place where immunization can be carried out in the community.
 b) Give any two factors that can lower the person's immune system.
 i) _____
 ii) _____
 c) How does a child health card help a parent to monitor the growth of a child?

51. Match the following food values in A with their uses in B.

A	B
Iron	Boosts the body immunity
Phosphorus	For manufacture of blood
Proteins	Makes the bones strong
Vitamins	Builds the body

- a) Iron _____
 b) Phosphorus _____
 c) Proteins _____
 d) Vitamins _____
52. a) Name the garden tool used to load manure.

 b) State any one way how rusting affects garden tools.

 c) Mention any two ways you can care for the garden tools at home.
 i) _____
 ii) _____

53. The diagram below shows two mothers feeding their babies in two different ways. Use them to answer the questions that follow.



a) Name the method of feeding the baby marked F.

b) Mention any one advantage of feeding a baby using method marked E.

c) State any one condition that can make the mother to use method marked F when feeding the body.

d) How does the method marked E helps the mother in child spacing?

54. Below are the activities involved in extracting honey from honey combs in a wrong order.

- a) Dip the wrapped honey combs in warm water
- b) Place the honey combs on a clean piece of cloth.
- c) Squeeze the honey combs to let out honey
- d) Wrap the honey combs in a piece of cloth.

Re-write the above activities in a correct order.

- a) _____
- b) _____
- c) _____
- d) _____

55 a) Name the layer of the soil that supports plant growth.

b) State any one cause of soil infertility.

c) In four steps, describe an experiment to show that soil contains humus (2mks)

- i) _____
- ii) _____
- iii) _____
- iv) _____

