

GREATTHINKERS EXAMINATION BOARD

PRE - P.L.E SCIENCE 2023 – P.7

(BRAIN TEAR ITEM I)

TIME: 2HRS 15 MINS

Name: _____ Stream: _____

School: _____ Index No: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

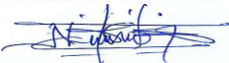
Read the following instructions carefully

1. This paper consists of two sections, **A** and **B**.
2. Section **A** has **50** questions (**50 marks**)
3. Section **B** has **5** questions (**50 marks**)
4. Answer **ALL** questions. All answers to both sections **A** and **B** **MUST** be written in the spaces provided.
5. **All** answers must be written in **blue ball point pen** or **ink**. Any work done in **pencil** except diagrams will not be marked.
6. Any **unpunctuated** work e.g. without full stops, commas, question marks etc will **NOT** be marked.
7. **Untidy work** (unnecessary crossing/ rubbing out work) will lead to loss of marks.
8. Any handwriting that cannot easily be read may lead to loss of marks.

FOR EXAMINER'S USE ONLY

Question No.	Marks	Initials.
1-10		
11-20		
21-30		
31-50		
51		
52		
53		
54		
55		

APPROVED BY:

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HEAD SCIENCE DEPARTMENT.

SECTION A

1. By what process are petroleum products obtained from crude oil?

2. In which state of matter is pus from the wound?

3. Give one reason why people apply perfume on their bodies.

4. State one danger of mosquitoes in latrines

5. Name the sugary liquid contained in plant cells

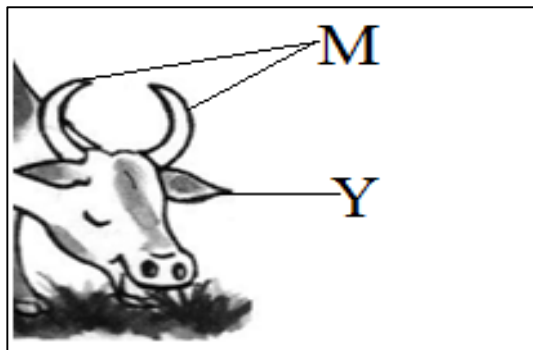
6. In which stage of a butterfly is a chrysalis?

7. To what class of levers does a screw driver belong?

8. Give the importance of trocar and cannula on a cattle farm.

9. Which rodent is a source of lassa fever when it bites a person?

Use the diagram of the animal head below to answer the questions 10 and 11



10. Use letter K to show the snout on the diagram

11. State one importance of structures M to any domestic animal

12. Name the part of the digestive system that conducts pancreatic juice to the duodenum from the pancreas.

13. What do we call sexual attraction to a dead body

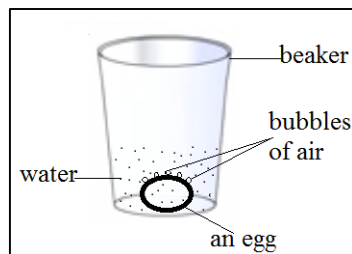
14. Which component of soil binds the soil particles together?

15. Why are girls more vulnerable to HIV than boys?

16. Give any one danger of air with pressure in the environment.

17. What form of energy is produced when manure is decomposed?

The experiment below shows one of the characteristics of an egg. Use it to answer the questions 18 and 19.



18. Which characteristic of an egg is shown above?

19. How does an egg benefit from the above characteristic?

20. Name the type of change which is destructive to steel and iron materials or tools.

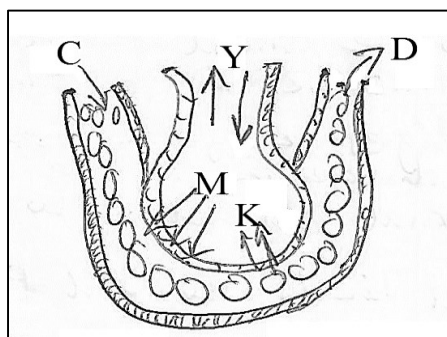
21. What is the importance of some water that remains in a toilet bowl after flushing?

22. Which part of a fish helps to keep it afloat on water?

23. Mention the stage in a lifecycle of mosquitoes which is controlled through keeping fish in nearby ponds and oiling the surface of stagnant water.

24. In which way does salting help in the preservation of fish?

The diagram below shows part of the respiratory system. Use it to answer questions 25 and 26.



25. Name the gas marked **M**

26. How is blood in **D** different from that in **C**?

27. Give any one danger of water to people.

28. State any one advantage of family planning in a family.

29. Apart from forming same end products and specific in nature, give any other characteristic of enzymes.

30. Write down any one reason why it is not good for children to put coins in their mouth?

31. How important is nitrogen gas in animal breeding?

32. Write fym in full as used in soil feeding.

33. State one effect of expansion caused by heat on buildings.

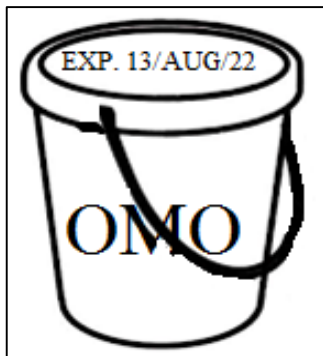
34. What can be done to saturated solution to make it able to dissolve more solutes?

35. What is soft water?

36. Name one example of sublimes.

37. Give ones reason why latrines are constructed with walls.

Study the diagram below of a tin of detergent and use it to answer questions 38 and 39



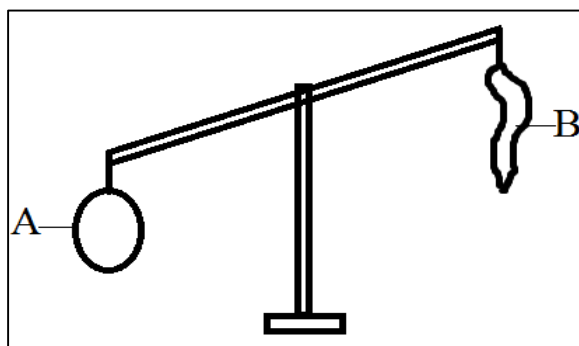
38. Give one use of the above sanitary tool in our homes.

39. Why is the above sanitary tool not good for use currently?

40. In which one way is Sebum useful in the skin?

SECTION B

41. The diagram below shows an experiment carried out by a P.3 class about property of one of the components in the environment. Use it to answer questions that follow.s



a) Which balloon is inflated with the component of the environment?

b) Name the component of the environment which is inflated in the balloon

c) In which class of lever does the above experiment belong?

d) What can be done to make both balloons A and B balance?

42. The following are lists of organisms P and R that belong to different groups.
Use them to answer the questions that follow.

P

Mushrooms
Moulds
Puffballs

R

Mosses
Horsetails
Liverworts

a) To which kingdom of living things do organisms in;

i) P belong? _____

ii) R belong? _____

b) How are organisms in P different from those in list R?

c) State one similarity between organisms in P and R.

43.a) Name the enzyme which is produced by yeasts during fermentation process.

b) Which poisonous chemical in tobacco smoke,

i) Stains the teeth?

ii) Causes addiction?

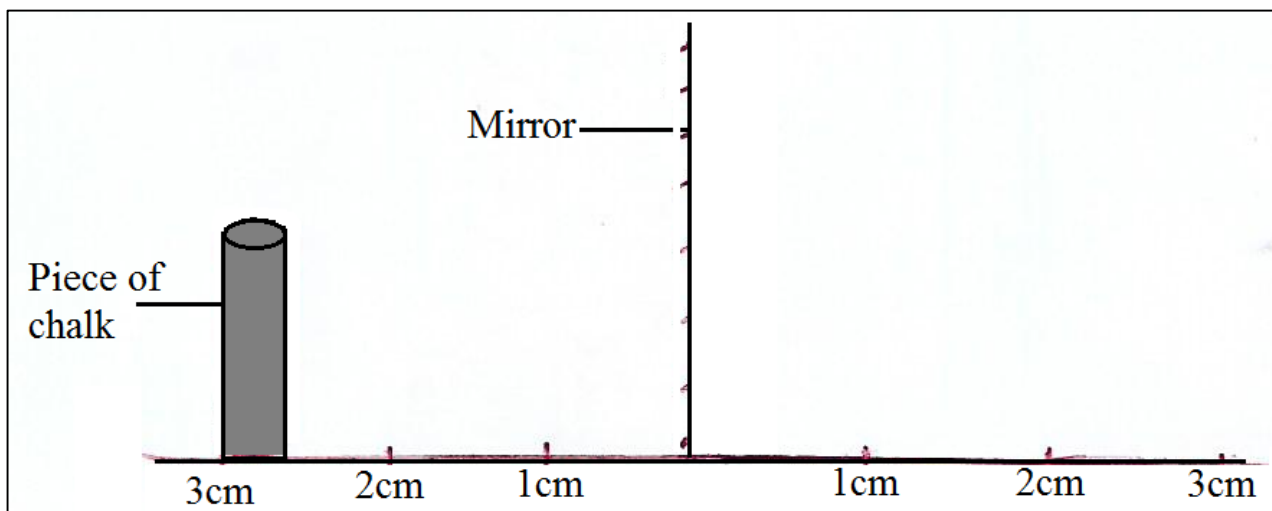
c) How does smoking of tobacco cause lung cancer?

44. a) Mention any two portable electric appliances that convert electrical energy to sound energy.

b) Give one reason why electricity is a bad master

c) Why does wet wood conduct electricity?

45. **The diagram below shows one of the optical instrument. Use it to answer the questions that follow.**



a) Complete the diagram by drawing the object that forms the image above.

b) Give any two characteristics of image formed in the above mirror.

c) What type of mirror is used in the above experiment?

46.a) State any two advantages of vegetative propagation.

i) _____

ii) _____

b) Give any two methods of vegetative propagation done artificially.

i) _____

ii) _____

47. Give the meaning of the following terms

i)Osmosis: _____

ii)Transpiration: _____

iii)Photosynthesis: _____

iv)Plant tropism: _____

48. **Study the arrangement of the types of teeth in a certain set in humans and use it to answer the questions that follow.**

$$2 \left(I_2^2 \quad C_1^1 \quad P_2^2 \quad M_3^3 \right)$$

a) Which set of teeth is shown above?

b) Calculate the number of teeth in the above set in the lower jaw (show the working) (2 marks)

c) How many molars are there in both jaws as shown above? (show the working)

49. a) What is an alloy?

b) Give any two reasons for making alloys.

c) Name any one metal that can be used to make brass as an alloy.

50.a) What are synthetic fibres?

b) Give any two examples of synthetic fibres

c) Which fibre animal is fed on mulberry trees?

51a) Give any two ways in which women save wood fuel in our locality.

b) Mention one example of fuel that can be made from cow dung besides biogas.

c) Apart from using as fuel, give one other use of sawdust to people.

52.a) Mention any two causes of sickness in schools

b) Give any two measures mothers can take to control sickness in their children at home.

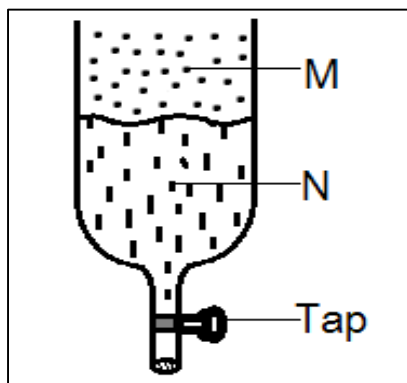
53. a) Write COVID 19 in full.

b) Mention one excretory organ which can be affected by COVID 19.

c) What causes COVID 19?

d) Give one element of PHC that helps to control the spread of covid 19

54. The diagram below shows one of the methods used in separation of mixtures. Study it and answer the questions that follow.



a) If the mixture had paraffin and water, which letter represents water?

b) Give a reason to support your answer in (a) above.

c) Name the method of separating mixture shown above.

d) Apart from the above method, give one method that can be used to separate a mixture of liquids.

55.a) What is the difference between biodegradable wastes and non-biodegradable wastes?

b) Give one example of;

i) Biodegradable waste. _____

ii) Non-biodegradable waste. _____

c) State any one way of conserving non-renewable resources in the environment without the use of SRS.
