

GREATTHINKERS EXAMINATION BOARD

PRE - P.L.E SCIENCE P.7 2023

(BRAIN TEAR ITEM 2)

TIME: 2HRS 15 MINS

Name: _____ Stream: _____

School: _____ Index No: _____

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

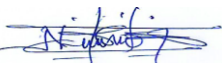
Read the following instructions carefully

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		

AI



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HEAD SCIENCE DEPARTMENT.

SECTION A

1. What name is given to proteins which is not fully digested?

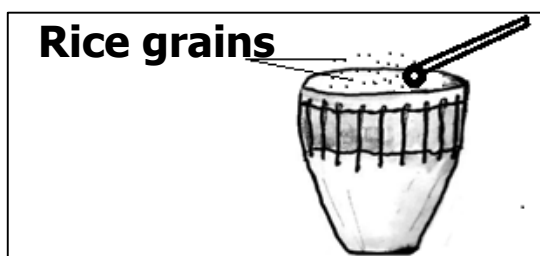
2. What happens to the mass of ice when it is exposed to heat?

3. By what process does smoke move from the kitchen through the chimney?

4. State any one use of water in the body of a P.7 candidate.

5. Name the disease of the lung caused due to the inflammation of the shiny membrane covering the lungs.

The diagram below shows a few rice grains placed on a drum. When the drum was hit, the rice grains jumped up and down. Use it to answer questions 6 and 7



6. Which form of energy was produced when the drum was hit?

7. What made the rice gains to jump up and down?

8. Give any one example of record kept by metrologists at a weather station.

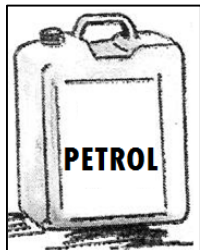
9. What do we call a fog containing smoke, soot particles and other impurities?

10.State any one use of fire at home.

11.What can happen when an object whose density is greater than 1g/cc is placed in water?

12.Give a reason to support your answer in number (11) above

Paul a mechanic always put the jerry can full of fuel shown in the diagram below in the kitchen. Use it to answer questions 13 and 14

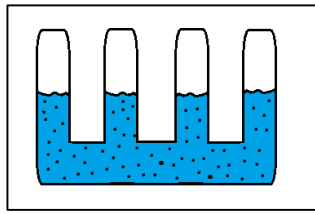


13.State the use of the above fuel to people.

14.Why is it very dangerous to keep the above fuel in the kitchen?

15.State the importance of a squeegee as a sanitary equipment in schools.

16.Which property of water is shown in the diagram below?



17. Write BAT in full as used in Tobacco.

18. Mention any one salt contained in hard water.

19. Name one digestive juice which lacks enzymes

20. What type of change takes place when the filament of an electric bulb burns?

21. Give the meaning of the term humidity.

22. In which one way do some plants avoid self-pollination?

23. Convert 50°C to Fahrenheit temperature scale.

24. Of what importance is proboscis to a mosquito?

25. Give any one reason why the skin produces goose pimples on cold days?

26. State one effect of frequent farting in class.

27. Why are the youth at a higher risk of getting HIV/AIDS?

28. Give one property of air illustrated in the process of pumping a tyre.

29. What are opportunistic diseases?

30. Name any one other enzyme found in the succus entericus besides peptidase and maltase.

31. Of what value is the hissing sound produced by the cobra moving in the bush to a person nearby it?

32. Give one disadvantage of using hard objects like stones to clean oneself in a toilet.

33. In which one way is the function of louvers similar to that of the ventilators on a house?

Use the arrangement of teeth below and use it to answer questions 34 and 35.

$$2 \begin{pmatrix} 1^2 & C_1^1 & 9^2 \\ 2 & 1 & 2 \end{pmatrix}$$

34. Which set of teeth is shown above?

35. Give a reason to support your answer in number (34) above.

36. Write one plant whose seeds are edible and has this type of leaf.



37. Give any one common way of rehydrating a dehydrated body of a P.7 candidate.

38. Joanita left her keys outside for a week and found out it had changed color. When she tried to use them to unlock padlocks, they failed. Why did the keys fail to unlock the padlocks?

39. Why is silver nitrate used to wash the eyes of some newly born babies in hospitals?

40. How is cuniculture different from rabbitry?

SECTION B

41. a) Name any two examples of solitary bees.

i) _____ ii) _____

b) Apart from honey bees, give one other example of social bees.

c) Of what importance are pollen baskets found on the hind legs of a worker bee?

42.a) What is a vacuum?

b) How does a cork prevent heat gain of liquids?

c) State any two liquids that can be kept in a flask

43. a) Give one reason why objects weigh less on the moon.

b) Why do objects weigh more on earth than on the moon?

c) How do people benefit from the sun through the moon at night?

d) Give one reason why objects weigh less when placed in water?

44. a) Give any two similarities between insects and arachnids.

i) _____

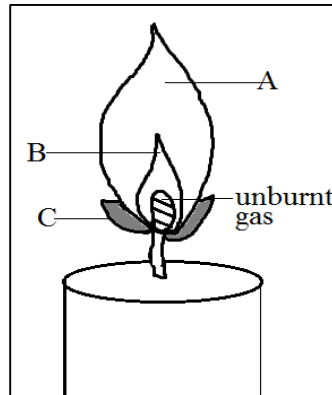
ii) _____

b) State any two differences between insects and arachnids.

i) _____

ii) _____

45. The diagram below shows a candle flame, use it to answer the questions that follow.



a) Identify the zones of the flame marked

i) B: _____

ii) C: _____

b) Which is the hottest zone of the flame above

c) Name the zone that gives out a lot of light.

46.a) What is ingestion?

b) In which part of the digestive system of a mad man does absorption of water take place?

c) Name the part of the gut of a teacher where mastication of food takes place.

d) Name the chemical catalysts that speed up the rate of digestion.

47.a) State two ways carbon dioxide gas is useful to people.

i) _____

ii) _____

b) In which state of matter is carbon dioxide in fire extinguishers.

c) Why is it not advisable to put out fire caused by petrol using water?

Study the given information of breeds of goats below and use it to answer the questions that follow.

Breed K	Breed M	Breed Q
Pygora	-Pygmy	Sable
Cashmere	-Sawanna	Toggenburg
Angora	-Texmaster	Alpine
	-Boer	Lamancha
	-Tennessee meat goat	Saanem

48. Which breeds are of great value in textile industry?

b) Give one difference between breeds M and Q in terms of Products.

c) State the purpose for rearing breeds.

i) M: _____

ii) K: _____

49. Give the meaning of the following

i) Water borne diseases

ii) Water contact diseases

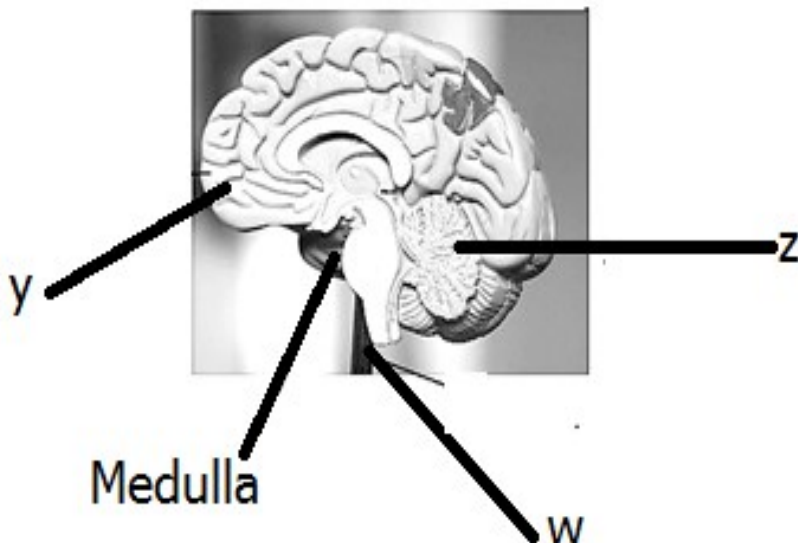
iii) Water habitat vector Diseases

iv) Water cleaned diseases.

50a) Write any two ways regular bathing helps to promote personal hygiene.

b) Give any two diseases that can spread due to poor personal hygiene.

51. The diagram below shows a common and a very delicate body organ. Use it to answer the questions that follow.



a) Which part of the skeleton protects the organ market W?

b) Name the part of the above organ labeled

i) Y: _____

ii) Z: _____

c) State one importance of the above body organ to a P.7 candidate during examination process.

52.a) Apart from hearing, give one other function of the human ear to a queen dancer.

b) **Which part of the human ear helps to?**

i) Equalize atmospheric pressure?: _____

ii) Convert vibrations into impulses?: _____

c) Give one common disease of the human ear

53. a) Give any three ways of applying manure in the garden.

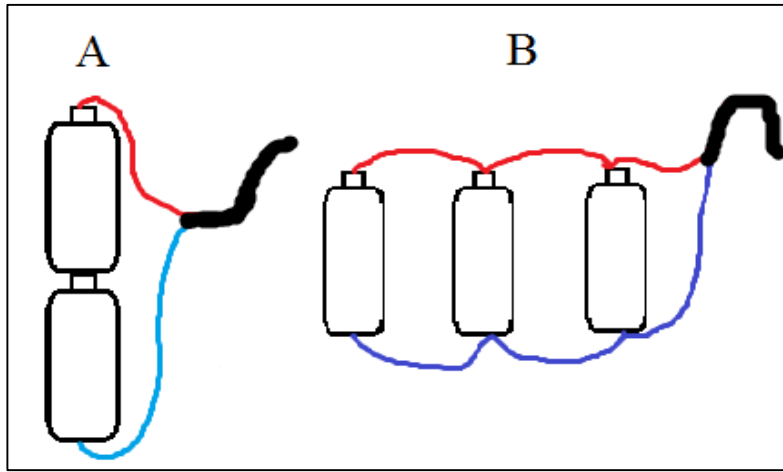
i) _____

ii) _____

iii) _____

b) Name any one element contained in NPK fertilizers

54. The diagram below shows arrangement of dry cells in two ways. Study and use to answer the questions that follow.



a) Identify the arrangement of the cells shown in;

i) A: _____

ii) B: _____

b) What is the total Emf used in A and B altogether?

55.a) What is a breeze?

b) Name the two types of breeze

c) How does a breeze affect the dress code in an area?
