

GRADE 7 JSS HEAD START EXAMS 2024
INTEGRATED SCIENCE

1. Match the following laboratory apparatus with their names. (4mks)



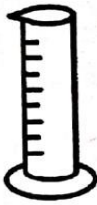
Beaker



Measuring cylinder



Funnel



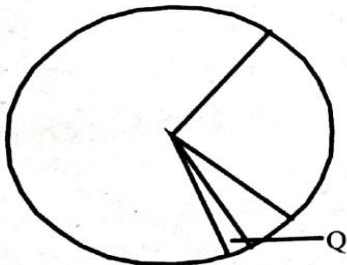
Test tube

2. Grade 7 pupils had their first lesson in the laboratory. State two causes of common laboratory accidents their Integrated Science teacher warned them against. (2mks)

(i) _____

(ii) _____

3. The chart drawn below shows components of air in the atmosphere

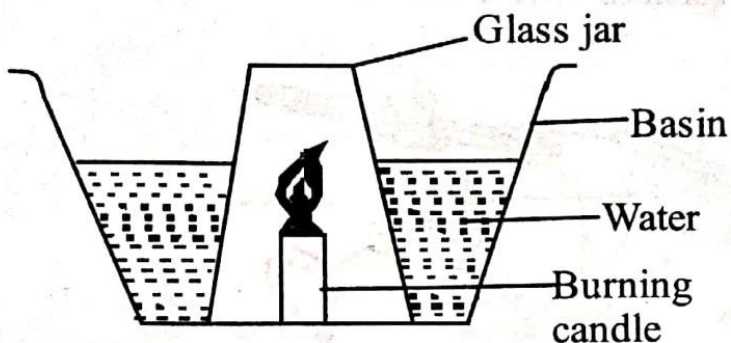


Write two functions of the gas marked Q.

(i) _____

(ii) _____

4. Some grade 7 pupils carried out the experiment shown below in their school laboratory



a) What observation did they make?(1mks)

b) State their conclusion(1mks)

5. To identify if a substance is either acidic or basic, we use _____ (1mk)

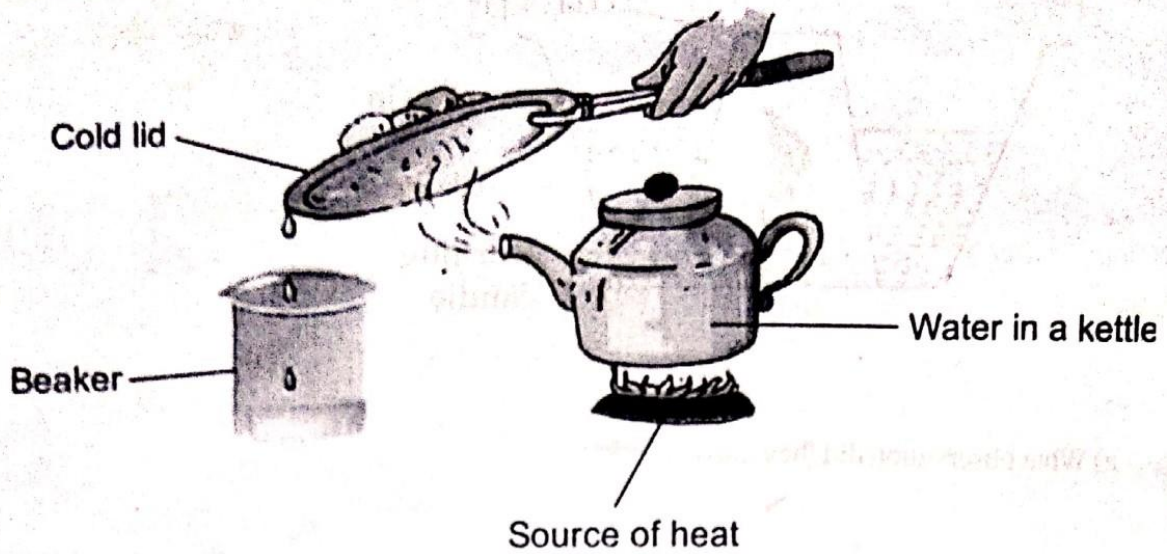
6. Some pupils were given the following substances to classify into acidic or basic.

Baking powder, Lemon juice, Anti-acid tablet, Sour milk

Classify the above substances in the table below. (4mks)

Acid	Base

Wambui, a grade seven pupils from a certain school carried out the experiment shown below. Use it to answer questions 7 and 8.



7. State the two changes of states of matter that took place in the above set up. (2mks)

- (i) _____
(ii) _____

8. Explain the function of the cold lid. (2mks)

- _____

9. The loudness or softness of sound is called _____ (1mk)

10. State two effects of sound pollution on health. (2mks)

- (i) _____
(ii) _____

11. Some pupils placed some grains of rice in water and heated it. After sometimes, they noticed the grains of rice moving upwards and downwards. This was due to (2mks)

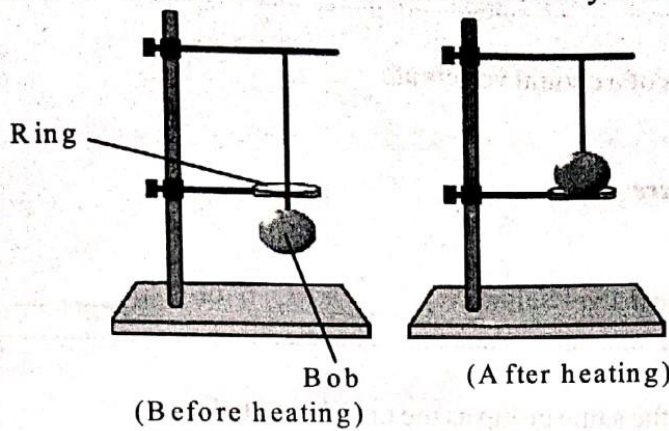
- _____

12. State two ways of reducing friction force between two surfaces.(2mks)

(i) _____

(ii) _____

13. The experiment shown below was carried out by some students.



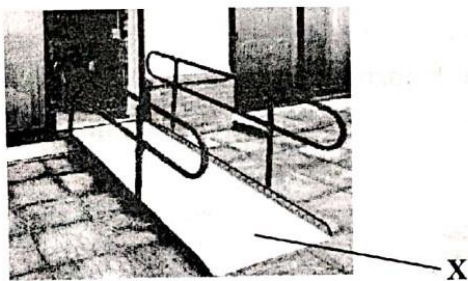
From the above activity, they concluded that (1mks) _____

14. State two machines that are in the same group as a ladder.(2mks)

(i) _____

(ii) _____

15. Most raised buildings have the slope marked X.



Which group of people are they **mainly** meant for? (1mk)

16. Some students uprooted a plant with the type of root drawn below.



Name two plants with the above type of root.(2mks)

17. State two importance of fungi to human beings. (2mks)

(i) _____

(ii) _____

18. The following are characteristics of a certain vertebrate;

(i) Lay eggs

(ii) Has varying body temperature

(iii) Breathe through lungs

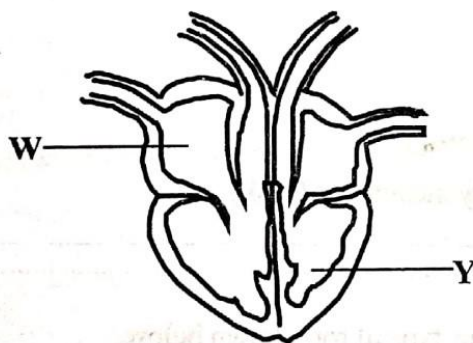
The groups of vertebrate was most likely either _____ or _____ (2mks)

19. Name one invertebrate that is in the same group as the one shown below.



_____ (1mk)

20. The diagram below shows the parts of the human heart.



Name the parts of the heart marked W, and Y respectively (2mks)

(i) _____

(ii) _____

21. State the function of the following parts of the female reproductive system(2mks)

(i) Uterus _____

(ii) Oviduct _____

22. Name two parts of the human skeleton (2mks)

(i) _____

(ii) _____

23. Name three types of blood groups. (3mks)

(i) _____

(ii) _____

(iii) _____

24. State 2 types of blood vessels and their functions in the table below. (4mks)

Blood vessel	Function
i) _____	_____
ii) _____	_____

25. A person who is dumb has _____ sense organs (1mk)