

END OF TERM I EXAMINATIONS 2022

SENIOR ONE

CHEMISTRY

TIME: 1 HOUR

  
Kityo. R

NAME..... STREAM .....

INSTRUCTIONS

- Answer all the questions
- Answers must be written in the spaces provided.

1. Racheal wants to carry out two chemistry experiments involving use of acids. Look at her opinion.



- (a) Using your knowledge of chemistry, Explain with a reason whether you support or donot support Racheal's opinion about the use of acids in chemistry experiments. (3 marks)

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- (b) State **three** other safety precautions that Racheal should consider when carrying out experiments in the laboratory. (3 marks)

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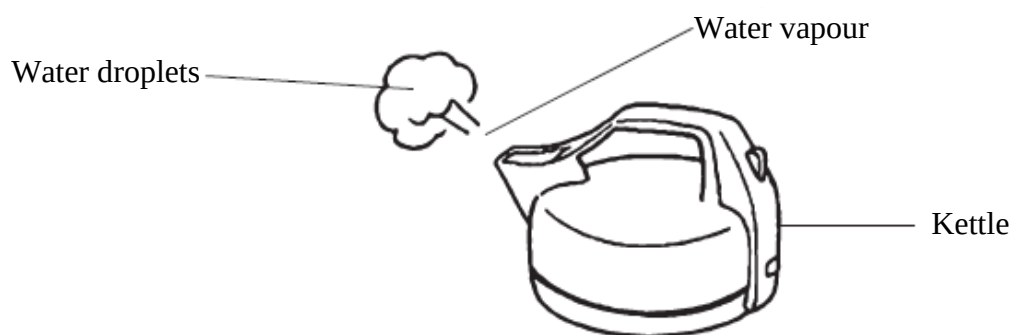
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2. The figure below shows a kettle of boiling water



- (a) Describe the changes of state taking place in the figure above (3 marks)

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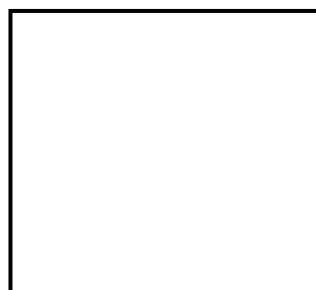
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- (b) Using small circles of similar size to represent particles, show the arrangement of particles in the water and water vapour in the boxes below. (4 marks)

**Arrangement of  
particles in water**



**Arrangement of  
particles in water  
vapour**

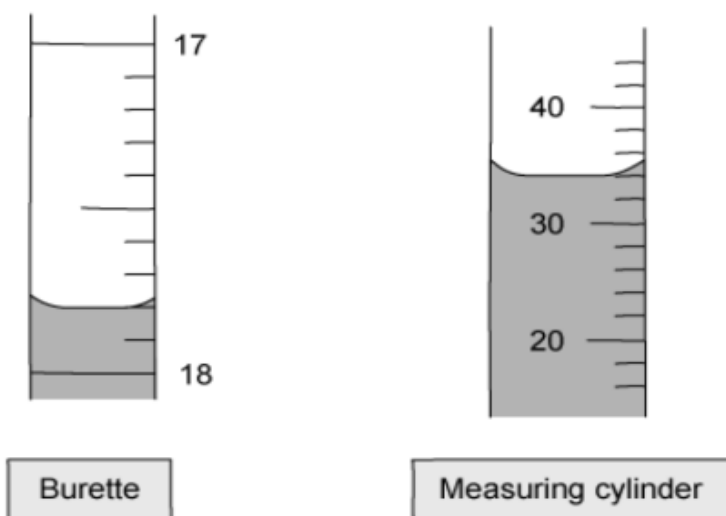


3. Use the words in the list below to complete the following sentences by filling in the blank spaces (13 marks)

(digestible, bodies, food, nutrients, diseases, detergents, food, dishes, useful, dirt, microorganisms, absorb, chemical, manufactured)

- (i) Digestion relies on chemical reactions between ..... and enzymes to break down large food substances into.....that the body can.....
- (ii) Soap and ..... are chemical substances that dissolve ..... when we wash our clothes,.....and.....
- (iii) Drugs are a product of chemistry knowledge and are .....in treatment of .....
- (iv) Cooking is a ..... change that alters ..... to make it more palatable, kills dangerous ..... and makes it more .....

4. The figure below shows a burette and a measuring cylinder, both of which contain a liquid.

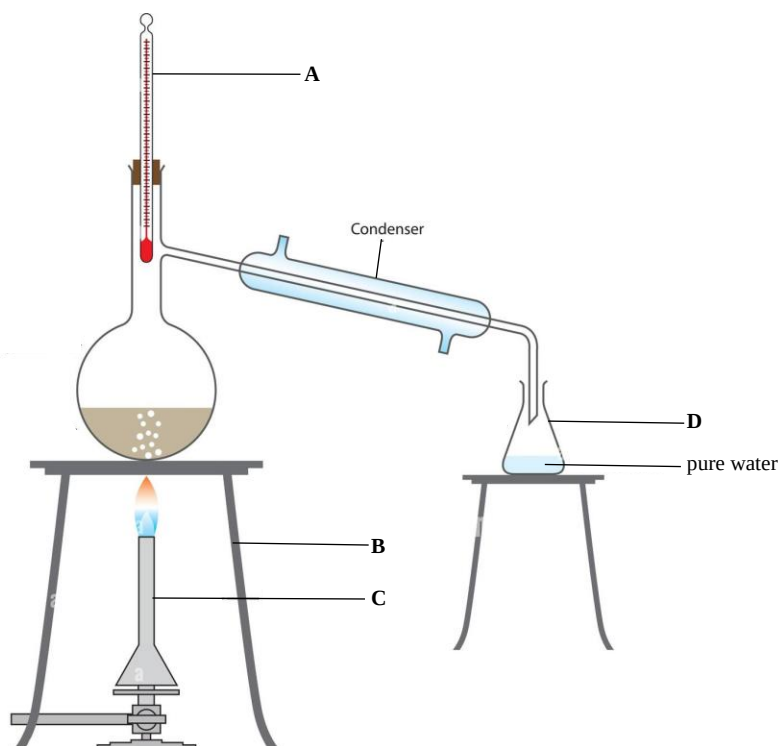


a

Use a tick ( ✓ ) to show if a reading is correct and a cross ( ✗ ) if it is wrong for both apparatus. (6 marks)

| Burette |   | Measuring clinder |   |
|---------|---|-------------------|---|
| 17.8    |   | 32                |   |
| 17.0    | ✗ | 34                |   |
| 18.4    |   | 43                |   |
| 18.2    |   | 30                | ✗ |

5. The figure below shows an experimental setup used to obtain pure water in the laboratory



From the figure above, name the apparatus labelled **(A-D)** and their functions (8 marks)

| Apparatus | Name | Function |
|-----------|------|----------|
| <b>A</b>  |      |          |
| <b>B</b>  |      |          |
| <b>C</b>  |      |          |
| <b>D</b>  |      |          |

**END**