**AMAHORO SENIOR SECONDARY SCHOOL**

**END OF TERM ONE EXAMS 2024**

***Competence Based Curriculum ( C.B.C ) Examination***

**S.1 CHEMISTRY**

***Time.* 1 hour 30 minutes**

**INSTRUCTIONS;**

•*Attempt* **all** *questions. Answers to all questions must be written in the spaces provided.*

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|  | | |
| 1. Chemistry is a sub discipline of science that deals with the study of matter and the substances that constitutes it. It also deals with the properties of these substances and the reactions undergone by them to form new substances.  Chemistry is around us and involved in everything we need, do and interact with in our everyday lives. Below are some of examples of chemistry in our lives.  (a)Use the chemical reactions shown in the diagrams below and  fill in the spaces below. ( 08) | | |
|  | | |



•Green plants use a chemical reaction called........................................

To convert carbon dioxide and water into food( glucose). It avails food to

plants and animals.

•**...............................................** involves the break down of food

substances into smaller soluble particles that can be absorbed into thebody.

•**................................................** is a process by which yeast and bacteria

break down sugars.

•**...............................................** use the chemistry of storage of

chemical energy and converting it to electrical energy.

•The process by which fuels react with oxygen from air producing heat

and light energy is called.**..........................................................,** it is

employed in heating of substances.

**•...........................................** is a substance formed when iron reacts with water and oxygen …………………………………employed in heating of substances.

**•...........................................** is a substance formed when iron reacts

with oxygen and water. It weakens iron articles; and makes iron cutlery

tools such as kitchen knives blunt.

•Regular**....................................** of hands with water and soap involves

chemistry of soap removing germs from our hands.

•**......................................**is used in making products such as breads,

cakes; pan cakes, cookies, doughnuts and all other product made from

flour. The process helps in raising the dough of flour and also preserves

such foods.

(b) state two ***applications*** of ,

(i) Fermentation. ( 02 marks)

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(ii) Batteries. ( 02 marks)

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(c) State two examples of ***combustion*** in our daily life.

( 02 marks)

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2. A laboratory is special place where science experiments are called from.

In carrying out experiments; materials called ***apparatus*** are used. Some apparatus are glass ware; others are made of plastics, others are made of metals while others are wooden. A chart of different apparatus in the laboratory is provided on **page 5**. Study it and answer the questions that follow.

(a)Name the apparatus shown by numbers **1** to **10** ( 09 marks)

1..........................................................

**2**..........................................................

3...........................................................

**4**...........................................................

5..........................................................

**6**...........................................................

7...........................................................

**8**...........................................................

**9.**..........................................................



(b)The use of each apparatus **10 to 19** is *given* below, **write** the **number** of

the apparatus to its use.

1. (i) Measuring the temperature of substances in the laboratory.................
2. (ii) Measuring volumes of liquids......................
3. (iii) Used in dispensing distilled water................
4. (iv) To pick up and hold apparatus.....................
5. (v) For mixing and containing solutions............
6. (vi) Holds test tube in upright position.............
7. (vii) Transferring solid chemicals in small amount......
8. (viii) Used for filtration and in easily directing liquids and solutions............
9. (ix) Containing reaction solutions, used in titration.......
10. (x) Used for stirring .....................................
    1. 3. Matter is anything that occupies space and has weight. Matter exists in different ***States*** . A ***state*** of matter is one of the distinct physical forms in which matter exists. (a) Below are diagrams showing different states of matter. Use them and answer the questions that follow



P Q R

(i ) Name the state of matter,

P ( 01 mark)

..............................................................................................................

**Q** ( 01 mark)

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R ( 01 mark)

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1. (iii) State the properties of each state of matter as a result of arrangement of particles and the attractive forces between them.

**P ( 03 marks)**

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Q ( 03 marks)

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**R** ( 03 marks)

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**END**