

THE UNITED REPUBLIC OF TANZANIA
PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
DODOMA REGION
DODOMA CATHOLIC SECONDARY SCHOOL ASSOCIATION (DOCASSA)
FORM ONE MID-TERM EXAMINATION
CHEMISTRY

032

TIME: 2:3 hours

April, 2025

INSTRUCTIONS:

1. This paper consists of section A and B and C
2. Answer all questions in section A and B. Answer ONE question from section C
3. All answer should be written in the answer sheet(s) provided.
4. Cellular phones and any unauthorized materials are not allowed in the examination room
5. Write your name/candidate number on every page of your answer sheet(s)

FOR EXAMINERS USE ONLY		
QUESTION NUMBER	SCORE	INITIALS OF EXAMINER
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
TOTAL		

Answer all questions in this section

1. For each of the item (i) – (x) choose the correct answer from among the given alternatives and write its letter beside the item number

- [illegible]

2.(a) Match the items in **List A** with a correct response in **List B** by writing the letter of the correct response below the corresponding item number in the table provided.

List A	List B
The blockage of the upper part of the airways by food or drink.	A Suffocation
A skin injury that causes a change in colour of the skin.	B Shock
A sudden loss of consciousness caused by lack of sufficient blood and oxygen to the brain.	C Bruises
A condition in which the body system is unable to take enough blood to the vital organs.	D Choking
A condition in which the lungs are not getting enough oxygen	E Fainting
	F Burns
	G Bleeding

i	ii	iii	iv	v

SECTION B (70 MARK)

Answer all question in this section

(a) Define the term laboratory safety.....

(b) Laboratory safety measures are very important and should be considered for accurate laboratory works, as a form one student briefly state the important of the following measures during scientific experiments.

(i) Cupboards, storage cabinets and drawers should have locks.....

(ii) Refrigerators and freezers used should be labeled for chemical use only.....

(iii) If there is a smoke to the extent of not being able to access the exist, it is advised to lie on the floor while searching for exist points.....

(iv) The laboratory should be well ventilated and door should open outward.....

(c). Bleeding is the loss of blood and other fluids from the body when the skin breaks. As a form two student identify procedures when dealing with a victim of a small cut or wound.

(i).....

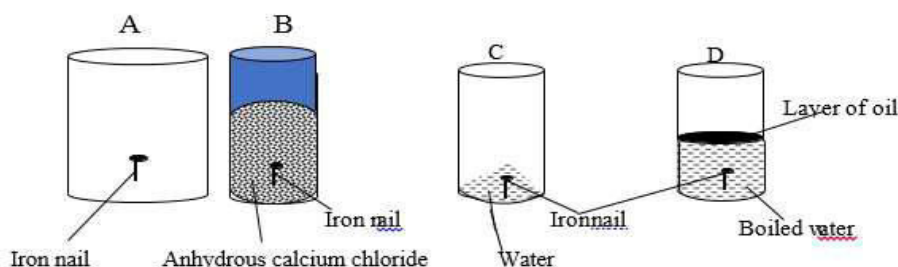
(ii).....

(iii).....

(iv).....

(v).....

4. You are provided with the following diagram below, study it carefully and answer the question that follows;



- (a) (i) Give sort and clear description about what will be observed in each beaker A – D after 2 or 3 days

In beaker

A.....

In beaker

B.....

In beaker

C.....

In beaker

D.....

(ii) What is the aim of experiment set up in above diagram?.....

(iii) Write one effect of the process taken in the experiment above in our daily life activities.

- (b) Briefly explain why corrugated iron sheet at coastal region like Dar es Salaam rust very fast compared to that at central regions like Dodoma?.....

- (c) Some metals such as aluminum, lead and zinc do not rust easily, explain why.....

5.(a) Explain the following phenomena based on the idea of particles:

(i) It is easy to pour a liquid.....

(ii). A gas will completely fill any container.....

(iii). A solid expands when heated.....

(b) Magebo placed a large crystal of potassium permanganate in the bottom of the beaker of cold water in chemistry laboratory and left it for several hours, according to kinetic theory of matter briefly explain about the following;

- (i) What she must have observed after five minutes.....
.....
- (ii) What she likely to observed after several hours.....
.....
.....
- (iii) Name the two process which have taken place?.....
.....
- (iv) From that experiment give conclusion about matter.....
.....
.....

(c) State the principle of kinetic theory of matter.....

.....
.....

6.(a) Draw a well labeled diagram of a small laboratory heat source consisting of vertical metal tube connected to a gas source.



(b) Describe how you will light a device drawn above

- i).....
.....
- ii).....
.....
- iii).....
- iv).....
.....
- v).....

(c) Burning back of the device drawn above is corrected as follows

- i).....
- ii).....
- iii).....

7 (a) Chemistry is not an isolated discipline, with vivid example s explain this statement by providing five points.

- (i).....
.....
.....
- (ii).....
.....
.....
- (iii).....
.....
.....
- (iv).....
.....
.....
- (v).....
.....
.....

(b) Use the relevant examples to state about the following statement.

- (i) Agriculture and chemical industry can work together.....
.....
- (ii) Chemistry has contributed to environmental hazards.....
.....

- (c).i) Who is alchemist?.....
.....
- ii) Mention two interest of alchemist.....
.....
.....

8. (a) What is laboratory apparatus?.....
.....

(b) Blessing was asked by the teacher to go to wash the apparatus in the chemistry laboratory. When she goes there, she was surprised to see the most of apparatus are made up of glass. She was bit confused why it's like this. You as educated student briefly outlines five disadvantages of using glass materials in chemistry laboratory.

- (i).....
- (ii).....
- (iii).....
- (iv).....
- (v).....

(c) Draw a well, smart diagram of the following laboratory apparatus and give one function for each

Apparatus	Diagram	Function
Burette		
Thistle funnel		
Round bottomed flask		
Measuring syringe		

9.(a) a) Differentiate first aid from first aid kit.....

.....

b) Mr. Machela got a car accident and was badly injured. During the first aid process, Mr. Zakayo put on gloves, took a bandage and gave him pain killers. What was the use of:-

- i. Glove:
- ii. Bandage:
- iii. Painkillers:

c) Explain any five possible causes of an accidents in school chemistry laboratory

- i.
- ii.
- iii.
- iv.
- v.

SECTION C (15 MARKS)

Answer question number **10** from this section.

10. (a) Form one students reads a statement from a certain book that “If the clothes worn by your friend catch fire, cover them with fire blanket”

- (i) What materials composes the fire blanket?.....
.....
- (ii) Why fire blanket is to be used in that case?.....
.....
- (iii) Briefly explain how it is used to put off the fire.....
.....
- (iv). What type of class of fire occurred to the clothes? Explain your choice.....
.....

(b) Outlines general five safety precautions you have to keep in mind when using fire extinguishers;

- (i).....
.....
- (ii).....
.....
- (iii).....
.....
- (iv).....
.....
- (v).....
.....

(c). State the chemical composition of the extinguishing agent of each of the following portable fire extinguishers;

- (i) Dry chemical fire extinguisher.....
- (ii) Carbon dioxide fire extinguisher.....
- (iii) Wet chemical extinguisher.....
- (iv). ABC fire extinguisher.....
- (v). Halon fire extinguisher.....
- (vi). Foam fire extinguisher.....