MKALAMA DISTRICT COUNCIL

FORM TWO DISTRICT MOCK ASSESSMENT
CHEMISTRY

TIME: 2:30 Hours **YEAR: 2025**

INSTRUCTIONS

1. This paper consist of section A, B and C with total of ten (10) questions
2. Answer all questions in section A, B and one (1) question from section C
3. Write your examination number on every page of your answer booklet(s)

QN NO	SCORE	EXERMINER'S INITIAL
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
TOTAL		
CHECKER'S INITIALS		

Candidate Examination Number .....

SECTION A (15 Marks)

Answer all questions from this section

1. For each of the items (i) – (x), choose the most correct answers from among the given alternatives and write its letter in the box provided.

(i) Nawanda went to the laboratory to perform a certain experiment. During experiment she used a spatula for scooping substances. What is the possible type of substance making that apparatus scoop?

A. Powdery and gases
B. Crystalline chemicals and powdery
C. Crystalline chemicals and liquids
D. Powdery and liquids

(ii) A girl dissolved a small amount of sodium chloride in the evaporating dish containing water to form a solution then heated. What name is given to a sodium chloride in the solution?

A. Solute
B. Solvent
C. Solution
D. Suspension

(iii) What is the smallest particle of an element that retains its chemical properties?

A. Molecule
B. Ion
C. Atom
D. Compound

(iv)

Which of the following is a physical change?

A. Burning of paper
B. Melting of ice
C. Rusting of iron
D. Digestion of food

(v) Among the following which one is the physical properties of oxygen?

A. Its colourless, odorless and tasteless
B. It turns blue litmus paper to red
C. It has pungent smell
D. It burns with blue flame

(vi) Mr. Majanga experiences difficulty in breathing when using elevator of his house. What was exactly happening to his lungs?

A. Do not exhale enough oxygen
B. Do not inhale enough carbondioxide
C. Do not inhale enough oxygen
D. Do not exhale enough carbondioxide

(vii) Trashes collected from all dustbins in a school were put into a special furnace where they produce energy in the form of light and noticeable heat when lit. What is the process taking

place inside the furnace?

A. Decomposition
B. Combustion
C. Disposing
D. Rotting

(i) P nting (ii) G vanizati (iii) S rificial a ode (iv) P ting (v) S ca gel	A. A mo reactive metal tha iron is a ached to e protect d mate al an will cons med favo of it

	B. A sub ance in f m of gra s and it a sorbs mo ture C. The p cess of c ting iron material or steel v th zinc D. The c ting of su stances s ch as me ls with a pecial pi ment E. Involv s coating ron with l. F. The pr cess of s aying iro with carb n dioxid gas G. The c

	ting of m erial wit in.								
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)
LIST	(i)	(ii)	(iii)	(iv	(v)				
LIST									

Candidate Examination Number .....

(viii) Mabala was prescribed to use a medicine whose container had a label written "**shake well before use**" as the best for him. In which kind of mixture is the medicine categorized to?

A. Solution
B. Emulsion
C. Suspension
D. Filtrate

ANSWERS:

(ix) Kibanji was ironing her uniforms, suddenly her mother called and she went to listen without switching off the socket. Upon coming back she found out that iron had exploded and the fire started to spread. Classify the type of fire caused by Kibanji.

A. Class C
B. Class D
C. Class E
D. Class F

(x) Lulela is facing a problem of fetching water at his village because all available water sources are full of mud. His friend advised him to assemble a simple water filter. Which of the components outlined below should not be included by Lulela in assembling the device?

A. Cloth
B. Alum
C. Charcoal
D. Gravel

2. Match the methods of preventing rusting in LIST A with the corresponding descriptions in LIST B

Candidate Examination Number .....

SECTION B (70 Marks)

Answer **all** questions in this section

3. (a) You have been appointed in a village meeting as an expert of Chemistry to explain to villagers four (4) applications of Chemistry in our daily life on the following fields:

by writing the letter of the correct response below the item number in the table provided.

(i) Agriculture

_____

_____

(ii) Transportation

_____

_____

(iii)Medicine and pharmacy

_____

_____

(iv) Construction materials industry

_____

_____

ANSWERS:

(b) A student was asked to mention four professional careers he/she may attain through studying Chemistry subject. What correct answers can we get from her/him?

(i) _____

(ii)_____

(iii)_____

(iv)_____

4. (a)A teacher planned with his students to perform an experiment at 8:00 pm. Students reminded

the teacher that the laboratory has no source of electricity so how can the experiment be conducted without light? The teacher told them we shall use the Bunsen burner to get light.

(i) What type of flame will be suitable during their experiment?

_____

(ii) Why is the flame named in (i) above suitable for that purpose? Give two reasons.

_____

_____

(iii)Draw a well labelled diagram of the flame named in (i) above.

Candidate Examination Number .....

(b)Scientists believe that the use of chemical symbols is more significant than using common names of elements. Give two reasons to support this statement

(i)_____

_____

(ii)_____

_____

5. (a)Madam Aisha took 1kg of maize to a mortar and pestle for grinding it, after few hours she succeeded to get 1kg of maize flour from those grains.

(i) Comment on the change occurred on the maize grains, as it was a physical change or chemical change.

_____

(ii) Give four reasons to support your answer in (i) above

(i) _____

(ii) _____

(iii) _____

(iv) _____

(b)Four beakers/bottles were found in the laboratory containing the following components: Bottle A contains a mixture of spirit and water, Bottle B contains a mixture of Iodine and sand,

Bottle C contains a mixture of dyes and Bottle D contains muddy water. Which methods can you use to help a laboratory technician to separate these components accordingly?

In bottle A _____

In bottle B _____

In bottle C _____

In bottle D _____

6. (a)Form four (4) students confused the uses of the gas that supports combustion (ignites) with the one which burns with a Pop sound.

As a form two (2) student give the name of the gas that burns with a pop sound, then correct this confusion by giving them four uses of the gas which burns with a pop sound;

Name of the gas

_____

Renewable	**Non-renewable**

Uses of the gas:

(i) _____

(ii) _____

(iii) _____

(iv) _____

(b)Mr. Majula went to the laboratory and found a substance T kept in a beaker, he also observed that the substance T boils at $100^{o}C$ and freezes at $0^{o}C$ at standard pressure.

(i) Outline three (3) chemical properties of substance T.

a) .....

Candidate Examination Number .....

b) .....

c) .....

(ii) How is the substance T used in manufacturing industries? Give two (2) uses;

a) .....

b) .....

c) .....

7. (a)Give the meaning of the following terms:

(i) Fuel

_____

_____

_____

(ii) Efficiency of a fuel

_____

_____

(b)You have been given the following; Biogas, petroleum, solar energy, wind energy, charcoal, natural gas. Help your young brother to classify them as renewable or non-renewable energy sources.

(c) Suppose your mother told you to buy a good/proper fuel for normal domestic uses. Which four (4) factors you may consider to implement your mother's order?

(i) _____

(ii) _____

(iii) _____

(iv) _____

8. (a) What are the qualities of a good chemistry laboratory (give four points)

i) .....

ii) .....

iii) .....

(b) State any four rules that must be considered during practical activities in the chemistry laboratory

_____

_____

_____

_____

Candidate Examination Number .....

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9. (a) Do you think there is any importance of giving First Aid to a victim? If yes give five reasons

i _____
ii _____
iii _____
iv _____
v _____

(b) What are the uses of the following items found in the First Aid Kit

i Iodine Tincture_____
ii Bandage_____
iii Petroleum jelly_____
iv Whistle_____
v Soap _____

SECTON C (Marks 15)

10. During the rain many rivers fill with muddy water, which people use for drinking. This water has caused them to suffer from water borne diseases such as typhoid and diarrhea. Explain five methods to make domestic water safe for use

_____
_____
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