

PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
JOIN THE REVOLUTION PROGRAM
FORM TWO MONTHLY TEST
CHEMISTRY

Time:2:30Hours

February 2024

Instructions

1. This paper consist of section A, B and C with a total of **ten (10)** questions
2. Answer all questions in the space provided
3. Section A and C carry **fifteen (15)** Marks each and section B carries **seventy (70)** Marks
4. All communication devices and any unauthorized materials are **NOT** allowed in the examination room
5. All answers must be in blue or black ink **EXCEPT** diagrams which must be in pencil

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

SECTION A (15 MARKS)

Answer ALL questions in this section

1. For each of the items (i) – (x) choose the correct answer from among given alternatives and write it on the space provided
 - i. Identify the skill not acquired during chemistry study.....
 - A. Careful and thorough observations
 - B. Accurate recording of what has been observed
 - C. Drawing conclusions from observations
 - D. Thorough observations and map reading skill
 - ii. _____ Access to safety equipment should never be blocked by any object because
 - A. It's a just simple law
 - B. There must be spaces for people to move around in the laboratory
 - C. The equipment is used in every day
 - D. It is important to reach safety equipment quickly in case of an accident
 - iii. The following apparatus is used to keep test tubes in the laboratory
 - A. Test tube rack
 - B. Beaker
 - C. Tongs
 - D. Test tube holder
 - iv. Factors in an experiment that can be manipulated to get desired results are called
 - A. Controlled variables
 - B. Manipulated variables
 - C. Dependent variables
 - D. Independent variables
 - v. Which of the following is an example of a chemical change
 - A. Melting butter
 - B. Breaking glass
 - C. Mixing milk and water
 - D. Burning leaves
 - vi. When a small amount of common salt is dissolved in water, the mixture so formed is
 - A. Homogeneous
 - B. Immiscible
 - C. Heterogenous
 - D. Suspension
 - vii. Which term describes a rapid chemical reaction that releases energy in form of light and heat?
 - A. Ignition
 - B. Reactivity
 - C. Combustion
 - D. Heating
 - viii. Are those people who study chemistry practically in the past _____
 - A. Chemists
 - B. Alchemist D.Scientist
 - C. Al-chemistry
 - ix. Is the systematic study of nature:-
 - A. Science
 - B. Technology
 - C. Chemistry
 - D. Contamination
 - x. Syrups are examples of
 - A. Solution
 - B. Suspensions

C. Homogeneous mixtures

D. Filtrate

i.	ii.	iii.	iv.	v.	vi.	vii.	viii.	ix.	x.

2. Match the item in **list A** with the corresponding responses in **list B** by writing the letter of the correct response besides the item number

LIST A	LIST B
i. Removal of Hydrogen from a substance	A. Oxidation
ii. Removal of oxygen from a substance	B. Reduction
iii. Substance which remove hydrogen from a substance	C. Catalyst
iv. Substance which remove oxygen from a substance	D. Reducing agent
v. Alter the rate of chemical reaction	E. Oxidizing agent
	F. Decomposition
	G. Oxygen

LIST A	i.	ii.	iii.	iv.	v.
LIST B					

SECTION B (70 MARKS)

Answer ALL questions in this section

3. (a) Why decomposition of Hydrogen peroxide method is mostly preferred in the preparation of oxygen gas?

- (b) Briefly explain why oxygen gas is collected by downward displacement of water?

- (c) Briefly explain chemical properties of oxygen gas?

i.

ii.

iii.

iv.

4. (a) Your teacher may advice you on things you should never do in the laboratory. For each of the rules below, write what might happen if you never followed the instructions?

- i. Never enter in the laboratory without permission

ii. Never quarrel or fight in the laboratory

iii. Never throw any solid into the sink or waterways

iv. Replace the cover after using the chemicals

v. Never use laboratory apparatus for drinking or storing food

(b) Draw the warning symbol you would expect to see on

i. A can of petrol

ii. A bottle of concentrated sulphuric acid

5. a) Nekumo is a form one student at Ubn Open School accidentally he mixed sulphur and iron fillings

(i) Suggest an appropriate method of separation you would advise him to use to separate the mixture

(ii) Give a reason for the choice of your answer

(iii) Describe how he would use the method named above to separate the sulphur and iron fillings

(b)(i) Name two substances that sublime when heated

(ii) Why water is not a suitable solvent in paper chromatography?

c) Bleeding is the lost 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) _____
- vi) _____

6. (a) Effective use of four senses of observation is important before a chemist can make conclusion. With four (4) points, show how the senses are used as tools of observation during experimentation by giving one example for each.

(b) Is chemistry related to your environment? Explain.

7. a) Why a flame produced by a candle **is not** suitable for a cooking? Give two reasons

- i) _____
- ii) _____

b) Give four differences between a flame produced when the air holes of a Bunsen burner are open and the one produced when the air holes are closed

Flame produced when air holes are open	Flame produced when air holes are closed
i)	
ii)	
iii)	
iv)	

8. a) Identify each of the following statements as an observation or a hypothesis

i) A silver tray turns a dull gray color when left uncovered _____

ii) North of the equator, it is warmer in summer than in winter _____

iii) Ice cubes float in water because they are less dense _____

b) Outline four significance of scientific producers in daily life

i) _____

ii) _____

iii) _____

iv) _____

v) _____

9. Robert Msaki placed a large crystal of Potassium permanganate (VII) in the bottom of a beaker of cold water and left it for several hours

(i) Explain what he must have observed after five minutes.

(ii) Describe what he likely observed after several hours. Explain

(iii) Name the two processes which have taken place.

(iv) From that experiment give two conclusions about matter

SECTION C (15 Marks)
Answer question number ten (10)

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

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

- i) _____
- ii) _____
- iii) _____
- iv) _____

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

- i) _____
- ii) _____
- iii) _____

KWA MAHITAJI YA

01. MITIHANI YA MID-TERM NA MARKING GUIDE ZAKE KWA KILA SOMO KWA VIDATO VYOTE

02. SERIES ZA O-LEVEL KWA MASOMO YOTE NA VIDATO VYOTE

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KWA KIDATO KIMOJA AMBAPO UTAPATA MITIHANI YA KILA MWEZI (MONTHLY TEST) KWA MASOMO YOTE NDANI YA MIEZI SITA. OFA HII NI KWA KIDATO CHA PILI NA CHA NNE TUU. ITAKUWA NI (MWEZI MARCH – SEPTEMBER) MIEZI 6 NA MARCH-DECEMBER MWAKA

MZIMAMWISHO WA KUJIUNGA NA OFA HII NI TAREHE 15/03/2024

KWA MAWASILIANO; WASILIANA NASI 0624 254 757

WHATSAPP TUU

U.B.N COOPERATION O-LEVEL EXAMINATION SERIES 2024
TIME TABLE FOR ALL SUBJECTS
FORM TWO AND FORM FOUR
FEBRUARY SERIES

ALL SUBJECTS	DATE	TIME
SERIES - 02	12 th February 2024	03:00 – 6:00 pm
SERIES – 03	19 th February 2024	03:00 – 6:00 pm
SERIES – 04	26 th February 2024	03:00 – 6:00 pm

CONTENTS COVERED

1. SERIES FORM TWO

(ALL TOPICS IN FORM ONE AND ONLY TWO TOPICS IN FORM TWO)

2. FORM FOUR

(ALL TOPICS IN FORM ONE, FORM TWO, FORM THREE AND ONLY TWO TOPICS IN FORM FOUR)

ADA : FORM TWO 11,000 MUHULA MZIMA

: FORM FOUR 16,000 MUHULA MZIMA

DEADLINE : MWISHO WA MALIPO NI TAREHE 15 MARCH 2024

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