

THE UNITED REPUBLIC OF TANZANIA
PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
KYERWA DISTRICT
FORM FOUR MID-TERM TEST MARCH 2023
CHEMISTRY 1

TIME:3 HOURS

INSTRUCTIONS:

- *This paper consists of sections A, B and C with total of eleven questions*
- *Answer all questions in section A and B and only Two (2) questions from section C.*
- *Cellular phones and any unauthorized materials are allowed in examination room.*
- *Non – programmable calculators may be used*
- *Where necessary the following constants may be used:*
 - i.1 faraday= 96500C*
 - ii.1 litre = 1dm³=1000 cm³*
 - iii.Atomic masses: H=1,C=12,O=16, Na= 23, Al=27,S=32, CU=64, Ag=108.*
 - iv.Avogadro's constant= 6.02 x 10²³ particles*
 - v.GMV at S.T.P = 22.4dm³*
 - vi.Standard pressure = 760 mmHg.*
 - vii.Standard temperature = 273 K.*

SECTION A (16 MARKS)

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

i.Do not touch any electrical equipment with wet hands. In which laboratory activities does the rule belong?

- A. During laboratory activities
- B. After laboratory activities
- C. Before laboratory activities
- D. Electrical laboratory activities

ii.The three types of smallest individual particles found in a atom are:

- A. Neutron, proton and nucleus
- B. Neutron, electron and nucleus
- C. Proton, electron and nucleus
- D. Neutron, proton and electron

- iii. What pair of products will be formed when lead sulphide reacts with oxygen?
- A. Sulphur metal and lead oxide
 - B. Lead oxide and sulphur trioxide
 - C. Lead oxide and sulphur dioxide
 - D. Lead metal and sulphur dioxide
- iv. What volume does 1.6 Kg of methane gas (CH_4) occupy at room temperature and pressure
- A. 22.4 dm^3
 - B. 2.24 dm^3
 - C. 224 dm^3
 - D. 1.6 cm^3
- v. What happens when you use a soap with hard water?
- A. Scum will not form
 - B. Lather will easily be formed
 - C. Scum formed easy to get a lather
 - D. Scum forms and difficult to get a lather.
- vi. Which among the following reactions take a short time to accomplish?
- A. Neutralization of an acid and base
 - B. Rusting
 - C. Combination of hydrogen and oxygen gas in absence of catalyst
 - D. Decomposition of hydrogen peroxide in absence of manganese (iv) oxide catalyst
- vii. How is crude oil separated into useful materials?
- A. By fractional distillation method
 - B. By chromatography method
 - C. By layer separation method
 - D. By filtration method.
- viii. Which property among the following describes group I elements?
- A. They are hard metals
 - B. They have higher melting point
 - C. They conduct electricity
 - D. They have higher density.
- ix. Type of reaction where by heat is released out of surroundings are known as:
- A. Redox reactions
 - B. Neutralization
 - C. Endothermic reaction
 - D. Exothermic reactions.

x. How can burning candles show a physical change?

- A. Producing smoke
- B. Producing heat
- C. Wax burning
- D. Wax melting.

Qns	i	ii	iii	iv	v	vi	vii	viii	ix	x
Ans										

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