

CANOSSA SECONDARY SCHOOL
CAT II EXAMINATION AUGUST 2025
CHEMISTRY FORM ONE.

TIME: 60 Minutes.

Date: 19th August. 2025.

INSTRUCTIONS:

- ❖ Answer all questions in space provided **ONLY**.
- ❖ Write your name on every page
- ❖ All drawings should be in Pencil.

Name..... Stream

SECTION A (15 marks)

1. For each of the items (i)---(xi) choose the most correct answer from among the given alternatives and write its letter in the space given.

i. Batilda Woisso like to study Chemistry because it is Funny subject. Therefore Batilda is
A) Biologist B) Geologist C) Chemist D) Mathematician.

ii. Then at Home during holiday Batilda kept a Juice in a refrigerator for cooling. The process involved was:

A) Melting due to increasing in temperature B) Melting due to decreasing in temperature
C) Freezing due to decreasing in temperature C) Freezing due to increasing of temperature.

iii. Next day Batilda wake up early in the Morning ready to prepare garden of flowering trees. Which chemical could be used by Batilda to improve growth of trees in her Garden ?

A. Vaccine B) Pesticides C) Processed animal feeds D) Fertilisers

iv. After preparation of Garden Batilda went into the Kitchen she saw a Box with Flammable sign. Which one of the following interpretation made by Batilda was the Correct?

A) The box contain Papers B) The box contain Ethanol C) The box contain Toxic foods
D) The box contain radioactive materials needed for her garden

v. When she come out she saw some leaves has fallen down from the trees. What changes took place to the plant in her garden;

A) Physical change B) Physical change and Chemical change
C) Neither physical nor Chemical change D) Chemical change

vi. When Holiday was over she returned to the school by using Motorcars. Which chemical products is usefull in transportation for her to go back school?

A) Soft drinks and Drugs B) Shoe polish and Canned foods C) Tyres , Grease and oils
D) Fuels, Toothpaste and lubricants

vii. Inside the car it was too hot so Batilda told a Driver to switch on Air Condition, but Driver replied to her **Close All windows Properly**. What is advantage of closing window before switch on Air condition?

- A) For maximum absorption of heat in the cars B) For refrigerants to melt easily
C) To allow enough heat to get outside D) To prevent Dust and bad smell from outside

viii. On the way back to school Batilda wanted to buy some foodstuffs like Chicken. Which two factor should be considered in the Kitchen to choose heat source suitable for cooking Chicken within the short period of time

- A) Type of food and its taste B) Colour of the flame and Size of the flame
C) Quantity of heat and less soot produced D) Colour and heat quantity

ix. When approaching to Tegeta she saw people burns Paper and Plastic material in Isolated place. The Driver ask her Which class of Fire is that?. On behalf of Batilda what is your comment

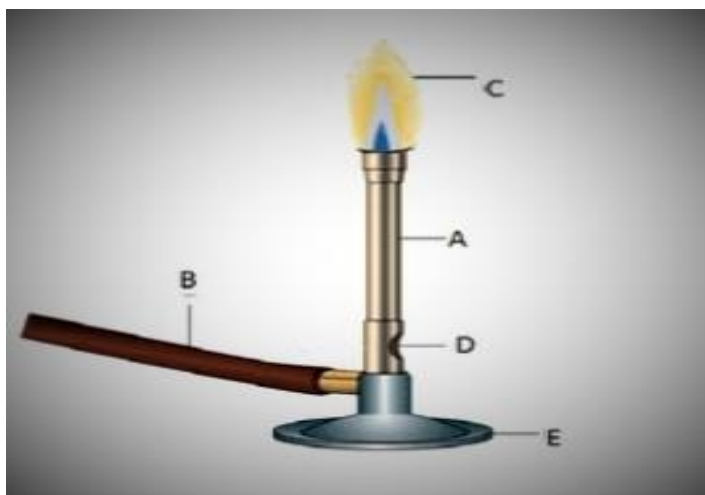
- A) Fire class C result into production of Ash and light as a Product of Combustion
B) Fire class B result into production of Heat and ashes
C) Fire Class A result into production of Carbon dioxide and Steam as a Product of Combustion
D) Fire Class A result into production of Heat and Light as a products of Combustion

x. Finally Batilda went to the Hostel and started to wash her School uniform. Which set of items can be used by Batilda in washing?

- A) Basin , Water, toothpaste and Pesticide B) Rungu Spray, Basin, Varnishes and Sugar
C) Water, Basin, Soap and detergents D) Soap, Detergent, Basin and perfumes.

i	ii	iii	iv	v	vi	vii	Viii	ix	X

02. Study a diagram of Bunsen burner below.



Name the part labelled A, B, C, D, E.

A=..... B=..... C=.....
D=..... E=.....

SECTION B (70 MARKS)

03. Draw a diagram of apparatus used to perform the following function in Laboratory.

i. used to spread out the flame evenly during heating	ii. Used for continuous preparation of gas in small amount.
iii. used to measure and dispense known volumes of liquids	iv. used to heat small amount of substances inside Gas jar

04.a) Give any three(03) difference between Gaseous state and Plasma state of matters.

Gaseous state of matters	Plasma state of matters

b) Give reason on why

i. Plasma can conduct electricity but Gas do not.

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ii. Solids is not considered as Fluid

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iii. A 2 litre of water can not be contained in a container of 1 litre

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05.a) Define the following terms used in chemistry

i) Diffusion.....
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ii) Chemical change
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iii) Rust
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iv) Soot
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iv). Freezing point.....
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b) In the First day Mr Nelson was Grinding a maize grain into a small particles and dissolved it into the Water, Then in the second day he used the crushed maize grain for cooking porridge for his Family.

i. Mention two process take place in the first day and in the second day

Process occurred in the First day

Process occurred in the Second day.....

ii. Give any four(04) difference between two changes mentioned above.

Change in the first day	Change in the second day

06.a) Why in Coastal regions like Tanga, Dar es salaam and Mtwara Iron sheets Rust faster compare to other regions like Dodoma and Singida?

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b) Mention conditions required for Rusting to occur

i. ii. and

c) If your Young sister asked you to tell her any four ways to prevent Rusting. Which ways you would to tell her. (Briefly explain).

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ii.

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iii.

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iv.

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7a) Explain why Ethanol has a lowest Boiling point(78°C) compare to Water(100°C)

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b) Give any five(05) difference between Rusting process and Combustion process.

<i>Rusting process</i>	<i>Combustion process</i>

08a) Professor Appiana Ginasaki planned to conduct an experiment so as to verify the behaviour of water particles when heating. She boiled 100 cm^3 of water in a beaker using Bunsen burner flame and she recorded the temperature of water after every 10 seconds. On her experiment, she observed two processes, first was the formation of small amount of water vapour at 50°C and last process was the formation of large amount of water vapour at 100°C .

i. State the names of two processes observed during experiment

i.

ii.

ii. Give any three (03) difference between the two processes observed by Appiana

First process	Second process

b) Explain any three reasons on why sometime in Second process water vapour can be formed at below or even above its normal temperature (100°C)

i.

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ii.

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iii.

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[illegible]

SECTION C (15 MARKS)

10. In which five areas Chemistry can be separated?. Explain any five(05) point.

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* ***CHEMISTRY IS FUNNY*** *

