

PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

MULEBA DISTRICT COUNCIL

FORM ONE JOINT TERMINAL EXAMINATION

CHEMISTRY

032

TIME: 2: 30 HRS

YEAR: MAY 2024

INSTRUCTIONS.

1. This paper consists of section A, B and C with a total of 10 questions.
2. Answer all questions in spaces provided
3. Section A carries 15 marks, section B 70 marks and section C 15 marks.
4. All answers should be written in the spaces provided.
5. All communication devices, calculators and any unauthorized material are not allowed in examination room.
6. Write your name on every page of your answer booklet.

SECTION A (15 MARKS)

Answer all questions in this section

1. For each of the following items (i) – (x) choose the correct answer among the given alternatives and write its letter beside the item number booklet (s) provided.
 - i. What is the name given to a chemistry expert?
 - a) Geologist
 - b) Chemist ()
 - c) Chemical
 - d) Scientist
 - ii. Suffocation is a condition in which the lungs
 - a) Do not exhate enough oxygen
 - b) Do not inhate enough oxygen ()
 - c) Do not inhate enough carbondioxide
 - d) Do not exhate enough carbon dioxide

iii. Fainting is a sudden loss of

a) Consciousness

b) Confidence

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c) Weight of the body

d) Water in the body

iv. The following apparatus is used to keep test tube in the laboratory

a) Test tube rack

b) Test tube holder

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c) Stand and clamp

d) Beaker

v. The first step in the scientific method is

a) Data analysis

b) Data interpretation

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c) Problem identification

d) Data recording

vi. Factors in an experiment that can be manipulated to get desired results are called.

a) Controlled variables

b) Manipulated variables

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c) Independent variables

d) Dependent variables

vii. Chemistry is list related to:-

a) Biology

c) Geography

b) Physics

d) History

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viii. Which of the following careers does not require the knowledge of chemistry?

a) Medicine

c) Archeology

b) Agriculture

d) Pharmacy

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ix. Which branch of chemistry deals with the study of carbon and its compounds?

a) Inorganic chemistry

b) Organic chemistry

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c) Biochemistry

d) Analytical chemistry

x. When the air holes of a Bunsen burner is fully opened the flame is:-

a) Luminous flame

c) Non – luminous flame

b) Bunsen burner

d) Barrel flame

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2. Match the items in LIST A with the responses in LIST B by writing the letter of the correct responses beside the item number.

LIST A	LIST B
i. Measuring cylinder	A. Holding substances that are being weighed or observed
ii. Electronic balance	B. Titrating chemicals
iii. Tripod stand	C. Measuring the mass of chemicals in the laboratory
iv. Bunsen burner	D. Sucking in and measuring volumes of liquids
v. Watch glass	E. Holding, heating and estimating the volume of liquid
	F. Produce non –luminous flame used for strong heating
	G. Usually placed above the bunsen burner with a wire gauze during heating or boiling
	H. Used with a clamp to support apparatus
	I. Adding reagents into flasks with small opening during experiment.

LIST A	I	II	III	IV	V
LIST B					

SECTION B (70 MARKS)

3. a) What do you understand by the following terms:-
 (i) First aid (ii) First aid Kit.
 b) Why first aid is important to our daily life? Give four (4) reasons.
4. List any five (5) possible causes of accidents in school laboratory.
5. Mention any five (5) apparatus that are used in chemistry laboratory and their uses.
 (i)
 (ii)
 (iii)
 (iv)
 (v)

6. a) Why a flame produced by a candle is not suitable for cooking? Give two reason
 (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)	

7. what do you understand by the following terms?

- a) Scientific method
- b) Hypothesis
- c) Experiment
- d) Controlled variable

8. Explain five (5) areas where chemistry is applied.

- a)
- b)
- c)
- d)
- e)

9. Explain the main seven (7) steps in the scientific method of solving different problem.

SECTION C (15 MARKS)

10. (a) Draw a well labeled diagrams 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.