

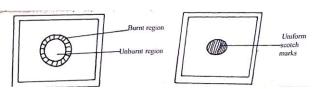
CHEMISTRY FORM 1 **OPENER EXAMINATION: TERM 2 2024**

MARKING SCHEME

INSTRUCTIONS.

Answer all the questions in	n the spaces provided.	
1. a. What is a drug?		(1mk)
• Its a natural or ma	anmade substance that when taken change	es the normal body functioning.
b. Give two drugs that are	b. Give two drugs that are commonly abused.	
Alcohol	2	(2mks)
• Miraa		
Tobacco		
c) List three harmful effect	ts of drug abuse.	(3mks)
Hallucinations		
Depression		
• Dependency		
Addiction		
Disease like cance	r	
2. Define the term chemistry.	•	(1mk)
 Science that deals in the second secon	he structure, competiti <mark>on</mark> of properties of w	water.
3. Study the figure below and	d answer the questions.	
a) What is the name a	riven to the above flome?	(1mk)
 Non-luminous flame 	given to the above flame?	(1mk)
• <i>won-tuminous jume</i>		
b) Indicate on the dias	gram the hottest region.	(1mk)
• The pale blue zone mu		()
-	e flame that contains unburnt gases.	(1mk)
Almost colourless regi		
4. a. What's matter?	, .	(1mk)
• It is anything that has	mass and occupies space.	
b. State the three states of a	matter	(1mk)
 Solids liquids 	matter.	(THIK)
 Gases 		
Cases		
5. a. Define a flame.		(1mk)
• A mass of burning gases.		
b. State three differences b	between luminous and non-luminous flame.	(3mks)
Luminous	Non-luminous	· · · · · · · · · · · · · · · · · · ·
Softy	Not sooty	
Quiet	Download this and the FREE revision	materials from https://teacher.co.ke/notes

6. The diagram below shows the appearance of two pieces of paper placed in different parts of a nonluminous flame of a Bunsen burner and moved quickly before they caught fire.



a) What do the experiments show about the outer region of the flame?

(1mk)

(5mks)

• Hottest part of the flame

b) From the above experiments, which part of the flame is better to use for heating. Give reason

(2mks)

- The outer region is made of complete burnt gases thus the hottest part of the flame.
- 7. Mr. Nyakundi went to a doctor who sent him to a pharmacy to pick some drugs. The pharmacists wrote on the medicine packaging 2x3.
- a) Clearly state what 2x3 meant. (2mks)
 2- tablets time 3 a day of 24hours.
 b) State two reasons why its important to adhere to doctor's prescription. (2mks)
- To prevent overdose
- To prevent underdosing
- 8. State five laboratory rules.

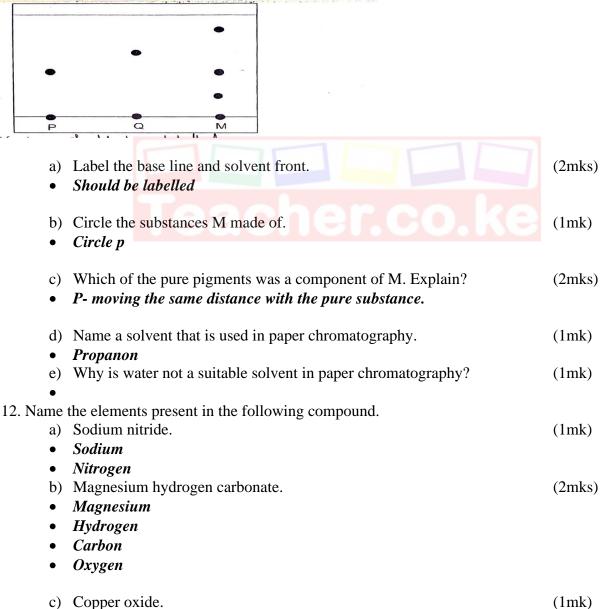


- 9. Identify three advantages why laboratory apparatus should be made of glass. (3mks)
 - They are transparent •
 - Unreactive to chemicals
 - Withstand high temperatures during heating.

10. Give four differences between temporary physical change and permanent change. (4mks)

Temporary physical changePermanent changeNo change in massChange in massRevisableIrreversibleNo new substance formedNew substance is formedAccompanied by low changes.Accompanied by great heat change				
		Accompanied by great heat changes		
			was then dropped in a solvent. The	xture M were placed on a filter paper an results obtained were as shown on the p
FRE				
a) •	Label the base line and solvent fro	ont.	(2mks)	
wnload this a(q	Circle the substances M made of. <i>Circle p</i>		(1mk)	
c)	Which of the pure pigments was a	a component of M. Explain?	(2mks)	

11. Spots of pure payment D and Q and a mixture M were placed on a filter paper and allowed to dry. The paper was then dropped in a solvent. The results obtained were as shown on the paper chromatogram below.



Copper

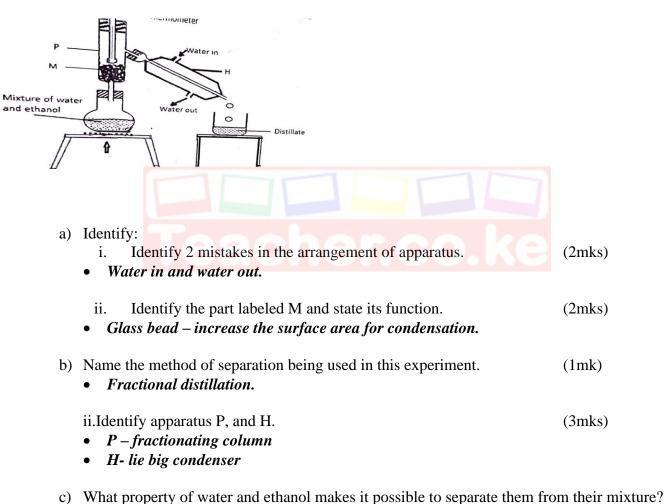
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(2mks)

13. Define the following terms:

- i. Atom
 - Smallest particle of an element which can take part in a chemical change.
- ii. Mixture
 - Substance made of two or more substances which are physically combuned and can be separated by physical means.
- 14. A form one student set up the following apparatus to separate a mixture of water and ethanol. Study it and answer the following questions.



(1mk)

- Melting point and boiling point
- 15. State the method that can be used to separate the following mixtures. (4mks)

Mixture	Method	
Salt and sugar		
Oil and water		
Ethanol and water	Download this and other FREE revision materials from http	s://teacher.co.ke/notes

16. Write a word equation for the reaction between. i. Carbon and oxygen $\longrightarrow car$		(3mks)	
ii. Sodium and sulphur \longrightarrow sod	dium sulphide		
 iii. Copper and chlorine 17. State the method that can be used to separate the 	e following mixtures.	(4mks)	
Mixture	Method		
Oil and water	Separating funnel		
Ethanol and water	Chromatography	Fractional distration	
Xanthophyll and chlorophyll	Chromalography		
 18. Give the chemical symbols for the following ele a) Potassium - <i>K</i> b) Zinc - <i>Zn</i> c) Iron -<i>Fe</i> 	ements.	(4mks)	
 d) Oxygen - <i>O</i> 19. The scheme below shows the behavior of solid Y 	W when heated.		
A Solid Liquid C	Gas		
Name the process. A – <i>Melting</i>		(4mks)	
B – freezing			

C – Condensation

Xanthophylls and chlorophyll



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