

NAME: \_\_\_\_\_ ADM.NO. \_\_\_\_\_ CLASS \_\_\_\_\_

CHEMISTRY Form 4

233/1

PAPER 1

MARCH-APRIL

TIME 2 HRS

**FOR EXAMINERS USE ONLY**

Question	Maximum Score	Candidates score
1-31	80	

1. Draw the following laboratory apparatus.

i) Crucible. (1mk)

ii) Retort flask. (1mk)

2. Explain the change in mass when the following substances are heated in open crucibles.

a) Zinc metal (1mk)

b) Zinc nitrate (1mk)

3. Describe an experimental procedure that can be used to extract oil from sunflower seeds.

(3mks)

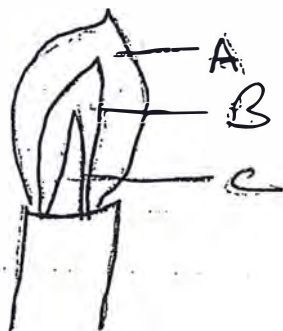
4. Solutions can be classified as acids, bases or neutral. The table below shows the solutions and their pH values.

Solution	pH Values
K	1.5
L	7.0
M	14.0
N	6.5

- a) Select a solution with very low concentrations of hydrogen ions. (1mk)
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- b) Identify two solutions that would react with Aluminium hydroxide. Explain. (2mks)

5. The diagram below shows a Bunsen burner in use.



Which of the labelled parts is best for heating. Give a reason. (2mks)

- 6.a) What do you understand by the term drug abuse. (1mk)

- b) Name two drugs commonly abused by the youth in Kenya today. (1mk)

7. The set-up below was used to investigate the products of burning biogas (Methane). Study it and answer the questions that follow.