

MARKING SCHEME

CHEMISTRY

FORM ONE TERM ONE

INSTRUCTIONS TO STUDENTS

1. Answer all questions in this question paper.
2. All your answers must be written in the spaces provided in this question paper.

Question	Maximum score	Candidates score
1 - 17	50	

- 1) Define the term drug abuse. 1mk
 - Use of drugs for a purpose other than what it is meant for.
 - Use of over or underdose of prescribed drugs (3mks)
- 2) Name three frequently abused drugs. (3mks)
 - Tobacco - Miraa (Khat)
 - Alcohol - bhang
- 3) State two long term effects of drug abuse. (2mks)
 - Body weakness
 - ~~Head~~
- 4) Define Chemistry. (1mk)
 Study of structure, properties and composition of matter and changes that matter undergoes
- 5) Name two career opportunities open to a chemist. 2mks
 - Medicine
 - Food technology
 - Engineering
 - Education

6) Give three importance of studying Chemistry.

- Knowledge gained helps in -
- (i) Manufacture of drugs to fight disease
 - (ii) Food production to fight hunger

(3mks) / Manufacture of cheap fabrics such as Nylon and Polyester.

7) Give three apparatus used for measuring accurate volume of liquid chemicals. 3mks

- (i) Volumetric flask
 - (ii) Syringe
 - (iii) Pipette
- | Burette.

8) What is the name given to the following apparatus? 5mks

- A Thistle funnel
- B ~~Measuring~~ Gas jar
- C Dropper
- D Dropping funnel
- E Conical Flask.

9) Give two reasons why most laboratory apparatus are made of glass. (2mks)

- For visibility
- To withstand high temperature during heating
- For Easy cleaning.

10) What is a flame?

(1mk)

A mass of burning gas

11) The diagram below shows a flame produced by a Bunsen burner. Study it and use it to answer the questions that follow.

1. Label the parts A, B and C. 3mks

- A - Pale blue zone
- B - Green blue zone
- C - Colourless zone.

- ii. When is the above flame produced by a Bunsen burner? 1mk
 When the air hole is open
- iii. State two reasons the above flame is preferred for heating in the laboratory. 2mks
 It's hotter / Do not make apparatus dirty
- iv. What is the name of the other type of flame produced by a Bunsen burner? 1mk
 Non-luminous flame.
- v. State two reasons why the Bunsen burner flame should be put off immediately after use. 2mks
 - To fire accident / Injuries
 - To avoid wastage of laboratory gas.

12) State four laboratory rules that students are supposed to follow when in the laboratory.

- (4mks) - Never run in the laboratory
 - Never smell gas directly
 - Never eat in the laboratory
 - Label the chemicals to avoid confusion
 - Keep doors and windows open to allow fresh air
 - Never should one do experiment without teachers instruction.

13) What is a mixture?

(2mks)
 Two or more substances put together and in which individual substance retains its physical and chemical properties

14) State two physical means of separating a mixture.

(2mks)

- Filtering
- Decanting
- Distillation

15) Odege, a form one student at Anestar high school accidentally mixed sulphur and iron filings. Suggest an appropriate method of separation you would advise him to use to separate the mixture.

(1mk)

Use of magnet

16) Give a reason for the choice of your answer.

(2mk)
 Iron filings are magnetic and will be attracted by magnet

17) (i). Define the term sublimation. 1mk

Direct change from solid to vapour without melting to liquid.

(ii). State four substances that undergo sublimation 4mks
Dry Ice, Benzoic Acid,
Aluminium chloride, Anhydrous Iron(III) chloride,

(iii). Give the reasons why dry ice is used in cold boxes instead of ordinary ice. 2mks

- Dry Ice sublimates without leaving any wetness
- Dry Ice is a better coolant compared to ordinary ice.