

PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
FORM TWO MONTHLY TEST
CHEMISTRY MARKING SCHEME

1. @ 1 mark = 10 marks

i	ii	iii	iv	v	vi	vii	viii	ix	X
D	D	A	C	D	A	C	B	A	B

2. @ 1 mark = 5marks

LIST A	I	ii	iii	iv	V
LIST B	A	B	E	D	C

3. a) Because it produces enough gas without the use of heat

(2marks)

b) Because it is slightly soluble in water

(1.5 mark)

c) (i) It support combustion

(ii) It is good oxidizing agent

(iii) Oxygen reacts with metal to form metal oxide (basic oxide)

Example : Sodium + Oxygen → Sodium oxide

Potassium + Oxygen → Potassium oxide

(iv) It reacts with non-metal to form non-metallic oxide (acidic oxide)

Example : Carbon + oxygen → Carbon dioxide

Sulphur + Oxygen → Sulphur dioxide

(@ 1.5 marks)

d) Use mouth suction

4 (a) i) In case of accident one can help you.

ii) It may cause to broke apparatus and spilling of chemicals

iii) This can block the sinks and water ways

iv) To avoid vapour and fumes from chemicals which might endanger our health?

v) May cause poisoning

(@ 1 mark)

(b) i) Flammable

(2.5 marks)



ii) Corrosive

(2.5 marks)



5 (a) (i) Magnetization

1 mark

(ii) The method is appropriate because the mixture contains magnetic materials (iron fillings)

1 mark

(iii) A bar magnet will be placed on the top of /above the mixture and because iron fillings are magnetic materials hence will be attracted by a magnet leaving behind sulphur dioxide in the container

2 marks

(b) (i) Ammonium chloride and Iodine

2 marks

(ii) Water is not a suitable solvent in paper chromatography because when used the paper swells up and ultimately dissolves.

2 marks

c) i) Wash your hand using soap and clean water

ii) Put on your gloves

iii) Wash the wound or cut using salty water and clean cloth

iv) Cover the wound or cut with plaster

(@ 0.5mark)

6 (a) i) Eye for seeing

ii) Ears for hearing

iii) Nose for smelling

iv) Skin for touching

(@ 1.5mark)

(b) Yes; we use different materials and equipments in our environment which were made of the application of chemistry e.g. soaps, paints, detergents, disinfectants, air freshener, polish etc. (Any relevant idea)

(4marks)

7 (a) i) It is not very hot

ii) It forms soot

(@1mark)

b)

Flame produced when air holes are open	Flame produced when air holes are closed
i) Blue in colour	Yellow in colour
ii) It is noisy	It is silent
iii) Has three zones	Has four zones
iv) Does not form soot	Forms soot

(@ 2marks)

8 (a) i) Observation

ii) Observation

iii) Hypothesis

(@ 1mark)

(b) i) Solves scientific problems

ii) It helps to gain new knowledge

iii) It helps to conduct project work

v) It helps to answer the scientific questions

(@1.5mark)

9 (i) After five minutes the colour of the solution become dark purple due to diffusion properly of KMnO_4 particles.

(ii) After several hours the colour of the solution may change to purple shade that is lighter than the initial colour . This is because the solution of water and KMnO_4 is made up of very tiny particles which get dispersed and spread amongst themselves, when KMnO_4 particles are together they give dark purple colour. As they get dispersed in water the purple particles will spread making the solution lighter in colour.

(iii) The two processes which have taken place are

- Diffusion
- Dispersion

(iv) From that experiment two conclusions that can be made are

- Matter is made up of tiny particles
- Particles of matter are constantly moving

@2.5 marks = 10 marks

SECTION C (15 Marks)

10 (a)

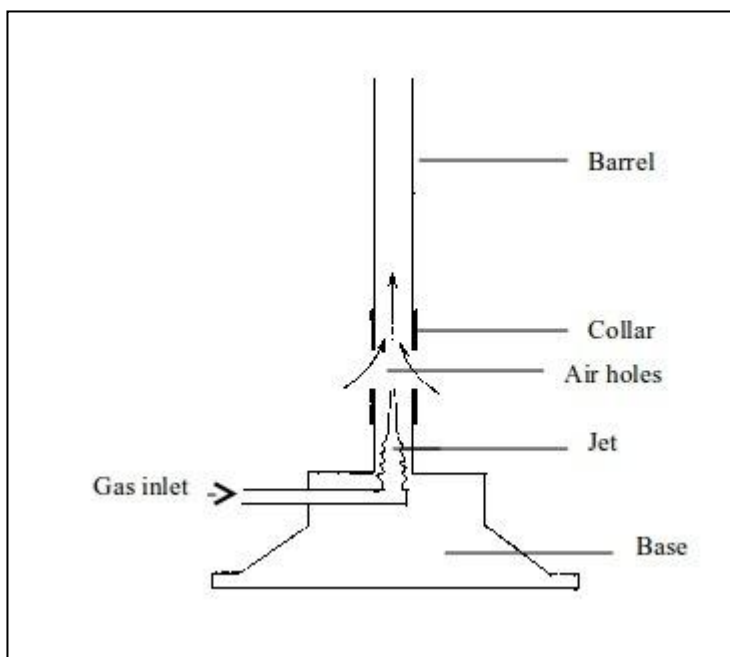


Diagram =2marks

Label = @1mark

Total = 8marks

- (b) i) Close the air hole
- ii) Fully on the gas tap
- iii) Immediately light a match and hold it above the opening
- iv) Turn down the gas until the flame is about 1 cm

(@1mark)

- (c) i) Turn off gas
- ii) Close the air holes
- iii) Light the Bunsen burner again

(@1mark)

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**KWA MAWASILIANO; WASILIANA NASI 0624 254 757
WHATSAPP TUU**

U.B.N COOPERATION O-LEVEL EXAMINATION SERIES 2024
TIME TABLE FOR ALL SUBJECTS
FORM TWO AND FORM FOUR
FEBRUARY SERIES

ALL SUBJECTS	DATE	TIME
SERIES - 02	12 th February 2024	03:00 – 6:00 pm
SERIES – 03	19 th February 2024	03:00 – 6:00 pm
SERIES – 04	26 th February 2024	03:00 – 6:00 pm

CONTENTS COVERED

1. SERIES FORM TWO

(ALL TOPICS IN FORM ONE AND ONLY TWO TOPICS IN FORM TWO)

2. FORM FOUR

(ALL TOPICS IN FORM ONE, FORM TWO, FORM THREE AND ONLY TWO TOPICS IN FORM FOUR)

ADA : FORM TWO 11,000 MUHULA MZIMA

: FORM FOUR 16,000 MUHULA MZIMA

DEADLINE : MWISHO WA MALIPO NI TAREHE 15 MARCH 2024

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