

CCC HEEP WOH COLLEGE
2024 – 2025 COMMON TEST 1 (Re-test)
Form Three Chemistry
Chapter 0: Introducing Chemistry
Chapter 1: Atoms and Elements
Chapter 2: Atomic Structure
Time Allowed: 15 minutes

Parent's Signature:	Mark:
	25

Name: _____ ()

Class: 3 _____

1. This paper must be answered in English.
2. Answer ALL the following questions in the spaces provided.

Section A: Multiple Choice - Mark you answer with a "✓" in the space provided:

(10 marks)

	1	2	3	4	5	6	7	8	9	10
A										
B										
C										
D										

1. Hazard warning labels of chemicals are used to
 - A. show what the chemicals are.
 - B. tell what precautions should be taken when using the chemicals.
 - C. tell people not to touch the chemicals.
 - D. divide chemicals into different groups.

2. Which of the following apparatus can be used to store a solution?

(I) Wash bottle	(II) Reagent bottle
(III) Dropping bottle	

 - A. (I) and (II) only
 - B. (I) and (III) only
 - C. (II) and (III) only
 - D. (I), (II) and (III)

3. Which of the following precautions should we take when we light a Bunsen burner?
 - (I) Make sure that the air hole is fully open.
 - (II) Make sure that the room is well ventilated.
 - (III) The hand should be placed lower than the top of the chimney.
 - A. (I) and (II) only
 - B. (I) and (III) only
 - C. (II) and (III) only
 - D. (I), (II) and (III)

4. Which of the following substances is an element?

A. Steel	B. Water
C. Air	D. Iron

5. Which of the following must be a property of metals?
- A. They are bad conductors of electricity.
 - B. They are solids at room conditions.
 - C. They have low densities.
 - D. None of the above is correct.
6. Which of the following is the most abundant metal in the Earth's crust?
- A. Aluminium
 - B. Oxygen
 - C. Iron
 - D. Nitrogen
7. Which of the following is NOT a decomposition of a compound?
- A. Dissolving salt in water.
 - B. Electrolysis of water.
 - C. Heating mercury(II) oxide strongly in a Bunsen flame.
 - D. Ammonia \longrightarrow hydrogen + nitrogen
8. Which of the following is a chemical property of carbon dioxide?
- A. It is a colourless gas.
 - B. It is denser than air.
 - C. It can be cooled to make dry ice.
 - D. It turns limewater milky.
9. Which of the following substances is the most abundant in dry air?
- A. Oxygen
 - B. Nitrogen
 - C. Carbon dioxide
 - D. Water vapour
10. Which of the following elements is the *best* conductor of heat?
- A. Magnesium
 - B. Hydrogen
 - C. Nitrogen
 - D. Sulphur

End of Section A

Section B: Structural Question (15 marks)**Question 1 [9 marks]**

The following table gives data for some elements:

Element	M.p. (°C)	B.p. (°C)	Element	M.p. (°C)	B.p. (°C)
Aluminium	660	2450	Mercury	-39	357
Bromine	-7	58	Nitrogen	-210	-196
Chlorine	-101	-35	Oxygen	-219	-183
Copper	1083	2600	Phosphorus	44	280
Helium	-270	-269	Potassium	64	760
Iron	1540	2900	Sodium	98	890
Lead	327	1750	Sulphur	119	445
Magnesium	650	1110	Zinc	419	906

Use the table to answer the following questions.

- (a) List the **SYMBOL** of any **TWO** elements which are (i) gases (ii) liquids (iii) solids at room conditions. [3]

(i)	Gases	
(ii)	Liquids	
(iii)	Solids	

- (b) List the **SYMBOL** of any **THREE** elements which are (i) metals (ii) semi-metals and (iii) non-metals. [3]

(i)	Metals	
(ii)	Semi-metals	
(iii)	Non-metals	

- (c) List the **SYMBOL** of **ALL** elements which are liquids at 1000 °C. [1]

- (d) List the **SYMBOL** of **ALL** metals which are gases at 1000 °C. [1]

- (e) List the **SYMBOL** of **ALL** non-metals which are solid at -80 °C. [1]

Question 2 [6 marks]

(a) (i) What warning label should be put on a bottle of alcohol? [1]

(ii) Draw the warning label in the space below. [1]

(iii) State ONE safety precaution we should take when handling alcohol. [1]

(b) Consider the following situations in the laboratory.

(i) What should you do immediately if a chemical spills on your hand? [1]

(ii) What should you do immediately if the clothes of your classmate catch fire? [1]

(iii) What should be done if you break the apparatus in the school laboratory. [1]

The End

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Marking Scheme

Section A: Multiple Choice (10 marks)


	1	2	3	4	5	6	7	8	9	10
A						✓	✓			✓
B	✓								✓	
C		✓	✓							
D				✓	✓			✓		

Section B: Structural Question (15 marks)

Question 1 [9 marks]

- (a) (i) **Cl, He, N, O (any TWO)** 1
(ii) **Br, Hg** 1
(iii) **Al, Cu, Fe, Pb, Mg, P, K, Na, S, Zn (any TWO)** 1
- (b) (i) **Al, Cu, Fe, Pb, Mg, Hg, K, Na, Zn (any THREE)** 1
(ii) **No semi-metals** 1
(iii) **Br, Cl, He, N, O, P, S (any THREE)** 1
- (c) **Al, Pb and Mg** 1
- (d) **Hg, K, Na and Zn** 1
- (e) **Br, P and S** 1

Question 2 [6 marks]

- (a) (i) **Flammable** 1
(ii)  1
(iii) **Keep it away from fire. (or other reasonable answers)** 1
- (b) (i) **Wash your hand with running water.** 1
(ii) **Use a fire blanket to put out the fire.** 1
(iii) **Report to the teacher at once / dispose of the broken glass in the broken glass bin.** 1

The End