

CHAPTER 10: GASES

TOPIC: 10.2 Properties and Uses of gases in the air

Name: _____ Class: _____ Date: _____

SECTION A: Multiple choice questions. (10 marks)

Fill in the correct answer in the box provided.

1). Which gas has the highest percentage composition in air?

- A. Argon
- B. Oxygen
- C. Nitrogen
- D. Carbon dioxide

2). Which of these gases is flammable?

- A. Oxygen
- B. Nitrogen
- C. Hydrogen
- D. Carbon dioxide

3). Which of these gases is not present in air?

- A. Neon
- B. Oxygen
- C. Hydrogen
- D. Carbon dioxide

4). Which of these gases produces a white precipitate when bubbled through limewater?

- A. Oxygen
- B. Nitrogen
- C. Hydrogen
- D. Carbon dioxide

5). Which of these is the lightest gas in air?

- A. Helium
- B. Oxygen
- C. Nitrogen
- D. Hydrogen

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6). Which of these is the most abundant gas in the air?

- A. Helium
- B. Oxygen
- C. Nitrogen
- D. Hydrogen

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7). Which of these pairs contain only noble gases?

- A. Helium and argon
- B. Argon and Oxygen
- C. Helium and nitrogen
- D. Oxygen and nitrogen

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8). Which of these can be used to test for the presence of water vapour?

- A. Blue litmus paper
- B. Concentrated sulfuric acid
- C. Blue cobalt chloride paper
- D. Blue copper sulphate crystals

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9). Which of the following gas is colourless, odourless and support combustion?

- A. Oxygen
- B. Nitrogen
- C. Hydrogen
- D. Carbon dioxide

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10). Air is a mixture of gases. Which gas puts out a burning splint and turns limewater milky?

- A. Helium
- B. Oxygen
- C. Carbon dioxide
- D. Hydrogen

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SECTION B - Answer all the following questions.

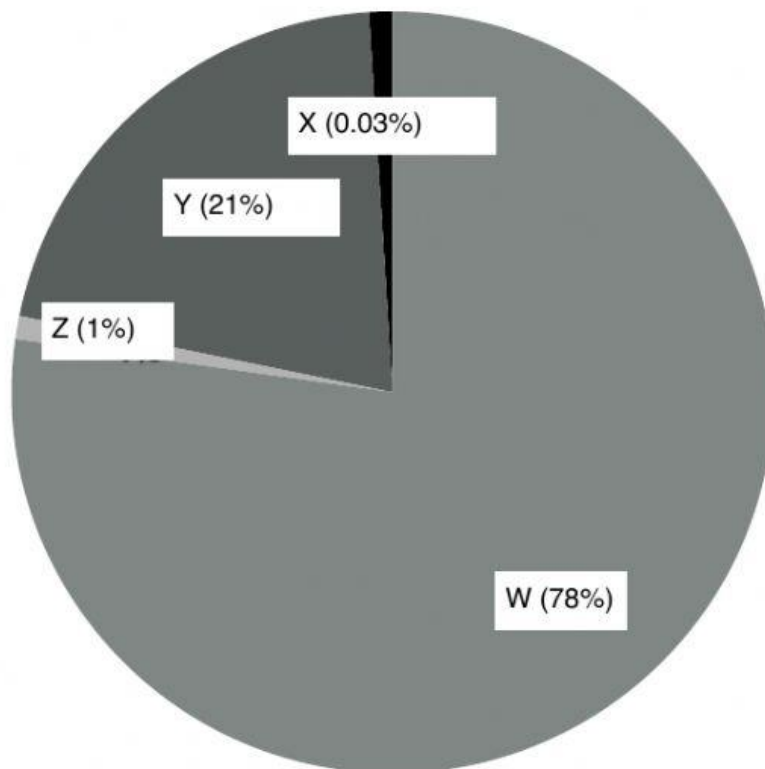
1. Fill in the blanks with suitable answer. (5 marks)

Hydrogen	mixture
glowing	burning
Nitrogen	inert
Carbon dioxide	element

Air is (a)_____ of gases which includes oxygen, carbon dioxide, nitrogen and noble gases. (b) _____ is the most abundant gas in the air with its unreactive nature. The gas that produces white precipitate when passed through limewater is (c) _____. Oxygen is colourless and odourless but it can be identified using the (d) _____ splint test. (e) _____ is another name for noble gases.

2. Write **TRUE** or **FALSE** in the box provided for each of the statements below.

- a) Water vapour turns dry cobalt chloride paper from pink to blue.
- b) Air is made up of elements only.
- c) Nitrogen is used to make fertilisers.
- d) Carbon dioxide is used by the plant for respiration.
- e) The amount of water vapour varies in the atmosphere due different temperature and pressure.



3. Study the pie chart below. it shows the composition of air.

(a) Name the gas labelled W and Y.

W: _____

Y: _____

(b) State ONE property of Gas X.

(c) Name the test for identifying Gas X and Gas Y.

Gas X: _____

Gas Y: _____

THE END