

JOY INTERNATIONAL COLLEGE KADUNA

HOMEWORK

CLASS: SS2

SUBJECT: CHEMISTRY

S/N	REVISION TOPIC	CONTENT	OBJECTIVES
1	HYDROGEN AND ITS COMPOUNDS	Study: <ul style="list-style-type: none">Preparation, properties and uses of hydrogen.Hydrides and isotopes of hydrogen.	At the end, you should be able to: <ul style="list-style-type: none">Outline the methods of preparation of hydrogenState the properties of hydrogenMention the uses of hydrogen.Outline the hydrides and isotopes of hydrogen.
2	OXYGEN AND ITS COMPOUNDS	<ul style="list-style-type: none">Occurrence, preparation and reactions of oxygenProperties, uses and oxides	At the end of your Study, you should be able to: <ul style="list-style-type: none">Explain the occurrence of oxygen.Outline the preparation and properties of oxygen.State the uses of oxygen.

REVISION QUESTIONS FOR TOPIC 1

- Which of the following is an impurity in air?
 - CO₂
 - O₂
 - H₂O
 - CO
- When hydrogen peroxide decomposes, the gas evolved
 - Turns moist litmus paper to blue
 - Does not support combustion
 - Dissolves in water to produce an acid
 - Reacts with hydrogen to form water
- Hydrogen is one of the products of the reaction between
 - Red hot iron filings and steam
 - Copper and dilute hydrochloric acid
 - Magnesium ribbon and cold water
 - Trioxonitrate (v) acid and zinc
- The most important use of hydrogen is in the_____
 - Manufacture of ethyl alcohol
 - Manufacture of ammonia

- c. Hydrogenation of oils
 - d. Manufacture of methyl alcohol
5. Which of the following metals will react with cold water to produce hydrogen gas
- a. Magnesium
 - b. Aluminium
 - c. Copper
 - d. Calcium
6. Hydrogen is used in oxy-hydrogen flames for melting metals because it
- a. Is a very light gas
 - b. Evolves a lot of heat when burnt
 - c. Is a rocket fuel
 - d. Combines explosively with oxygen
7. Hydrogen is readily released when dilute hydrochloric acid reacts with_____
- a. Cu b. Ag c. Na d. Au
8. When a lighted splint was introduced into a test tube containing an unknown gas, a pop sound was heard and a pale blue flame was observed. The unknown gas is
- a. Nitrogen
 - b. Chlorine
 - c. Oxygen
 - d. Hydrogen
9. Hydrogen gas is not found in the atmosphere because it readily react with
- a. Carbon (II) oxide
 - b. Oxygen
 - c. Nitrogen (IV) oxide
 - d. Nitrogen
10. which of the following isotopes of hydrogen is radioactive
- a. Tritium
 - b. Helium
 - c. Protium
 - d. Deuterium

REVISION QUESTIONS FOR TOPIC 2

11. Which of the following substances is a peroxide
- a. Na_2O_2
 - b. CuO
 - c. PbO_4
 - d. Fe_2O_3

2. Hydrogen reacts violently with oxygen to form a pale blue flame to produce____

- a. Peroxide
- b. Water
- c. Acid
- d. Basic oxide

3. Oxides formed between a metal and oxygen is ____

- a. basic oxide
- b. Acidic oxide
- c. Amphoteric
- d. Neutral

4. The effect of oxygen on litmus is

- a. changes blue litmus paper to red
- b. Changes red litmus paper to blue
- c. is neutral
- d. changes red to brown

5. Which of the following pairs of elements forms amphoteric oxide

- a. Zn and Al
- b. Be and Mg
- c. Si and Pb
- d. Na and K

6. The property used in obtaining oxygen and nitrogen industrially from air is the

- A. boiling point
- b. Solubility
- c. Rate of diffusion
- d. Density

7. A consequence of global warming is_____

- a. Water pollution
- b. Flooding
- c. Increased humidity
- d. Air pollution

8. Which of the following gases makes up the largest percentage of the atmospheric air?

- a. Carbon (iv) oxide
- b. Hydrogen
- c. Nitrogen
- d. Oxygen

9. The mixture of gases used in a photographer's flash tube is

- a. Argon and Krypton
- b. Krypton and Xenon
- c. Helium and Argon
- d. Argon and Xenon

10. Which of the following substances causes the depletion of the ozone layer in the atmosphere?

- a. Carbon (iv) oxide
- b. Chlorofluorocarbon
- c. Sulphur (iv) oxide
- d. Hydrocarbon

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Note:

- Students should feel very free to interact with any of above teachers for assistance through phone calls, WhatsApp or email.
- Students should solve questions in their test and assignment exercise book.

