



LAGOS STATE GOVERNMENT
MINISTRY OF BASIC AND SECONDARY EDUCATION
3RD TERM UNIFIED EXAMINATION 2024

SS 1

CHEMISTRY

Time: 2 hrs.

SECTION A - OBJECTIVES

INSTRUCTION: Answer all questions in this section.

- The branch of science that deals with the nature and properties of substances and how one substance can be converted to another is known as
(a) Biology (b) Geography
(c) Chemistry (d) Physics
- The electron configuration $1s^2 2s^2 2p_x^2 2p_y^2$ depicts the
(a) Pauli's exclusion principle
(b) Aufbau's principle
(c) Octet rule
(d) Hund's rule
- The oxidation number of chromium in $Na_2Cr_2O_7$ is
(a) +2 (b) +6
(c) +7 (d) +12
- Bases normally
(a) are corrosive
(b) turn litmus paper from blue to red
(c) turn litmus paper from red to blue
(d) are non-metal oxides
- Naturally occurring Boron is made up of 19.9% ^{10}B and 80.1% ^{11}B . The relative atomic mass of Boron is
(a) 21.0 (b) 10.8
(c) 10.5 (d) 10.0
$$\frac{19.9 \times 10 + 80.1 \times 11}{100} = 10.81$$
- Isotopes of the same element have similar chemical properties because they have the same number of
(a) Nuclides (b) Neutrons
(c) Atoms (d) protons
- Which of the following household liquids would be effective in treating someone with too much acid in the stomach?
(a) Strong salt solution with pH 7.0
(b) Tomato juice with pH 4.1
(c) Milk of Magnesia with pH 10.5
(d) Black coffee with pH 5.0
- The percentage by mass of oxygen in $MgSO_4 \cdot 7H_2O$ is
(a) 26.0% (b) 45.5%
(c) 71.5% (d) 84.0%
- Ethane of volume $400cm^3$ was completely burnt in excess oxygen according to the following equation:
 $2C_2H_6(g) + 7O_2(g) \rightarrow 6H_2O(g) + 4CO_2(g)$
Calculate the volume of steam that would be produced.
(a) $200cm^3$ (b) $400cm^3$
(c) $600cm^3$ (d) $1200cm^3$
$$\frac{2 \times 400}{2} = 400 \quad \frac{6 \times 400}{4} = 600$$

$$400 + 600 = 1000$$
- A weak acid is one which
(a) is not corrosive
(b) completely ionizes in water
(c) does not produce salt with alkali
(d) slightly ionizes in water

Sss1 Chemistry Third Term

Richard Bailey

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