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ANNEE SCOLAIRE 2021/2022



MONTESQUIEU PRIVATE
BILINGUAL HIGH SCHOOL

REPUBLIC OF CAMEROON

peace - Work- Fatherland

Friday, 07th October 2021

FIRST Sequence Harmonized Examination Chemistry; SEPTEMBER
2022.

Form 3

DEPARTMENT OF CHEMISTRY

Answer all the following question in your answer paper.

SECTION A/ GENERAL KNOWLEDGE (16 mks)

TIME 60mins

- 1) How many shells have an atom with atomic number 12? a) 2 b) 3 c) 1 d) 4.
- 2) Which of the following non-metals is the most reactive? a) Ne b) Cl₂ c) O₂ d) F₂.
- 3) The elements belonging to the same period are a) Ca and K b) Ar and N₂ c) Ca and Na c) N₂ and P.
- 4) In an atom the nucleus a) has a net positive charge b) contains protons only c) contains protons, neutrons and electrons d) are located on shells.
- 5) How big an atom is a) determines its charge b) depends on the volume its shells occupy c) depends on the size of the nucleus d) are located on shells.
- 6) The arrangements of electrons on shells are called a) energy levels b) orbitals c) electron shells d) electronic configuration.
- 7) The number of neutrons hydrogen has with one proton and one electron is a) 1 b) 2 c) 3 d) 0.
- 8) Protons and electrons are collectively called a) atomic number b) proton-neutron number c) nucleons d) atomic weights.
- 9) The number of valence electrons of an element $^{28}_{14}\text{X}$ is a) 4 b) 3 c) 2 d) 1
- 10.) Which of the following is the electron configuration of an element x with atomic number 11 is?
a) 2;8;1 b) 2;7;2 c) 2;6;3 d) 1;8;2.

SECTION B/ TEST OF SKILLS

- 1a) draw an atom and labeled all its parts.

- b) Make a table and name all the three (03) sub atomic particles of an atom giving; location, atomic mass units (a.m.u) and their charge.
- c) Cl-35 and Cl-37 occurs in the sample of Cl such that there is 75% Cl-35 and 25% Cl-37. From this information find the RAM of Cl.

GOOD LUCK

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