

GRADE 10 PHYSICAL SCIENCES

NOVEMBER EXAMINATION PAPER 2: CHEMISTRY

SECTION A

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER in your answer book.

1.1 Which of the following is an example of a mixture?

- A distilled water
- B diamond
- C sodium chloride
- D ketchup

1.2 Element with the electron configuration: $1s^2, 2s^2, 2p^4$

- A oxygen
- B carbon
- C helium
- D nitrogen

1.3 The chemical formula of sodium sulfide

- A NaS
- B Na₂S
- C NaS₂
- D Na₂S₂

1.4 Strongest intermolecular force found in water?

- A Ion-dipole
- B Dipole-dipole
- C Van der Waals
- D Hydrogen bond

1.5 The particles of a gas ...

- A are tightly packed.
- B vibrate against each other.
- C move freely and rarely touch.
- D move over one another.

1.6 Element with the highest electronegativity?

- A Hydrogen
- B Helium
- C Oxygen
- D Fluorine

1.7 When an atom of Group 16 ionises to become an ion, the

- A mass number of the atom will increase
- B atomic number of the atom will decrease
- C number of electrons will decrease
- D number of electrons will increase

1.8 An element with the following Aufbau diagram will be classified as a:



- A noble gas
- B halogen
- C alkali earth-metal
- D alkali metal

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