

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

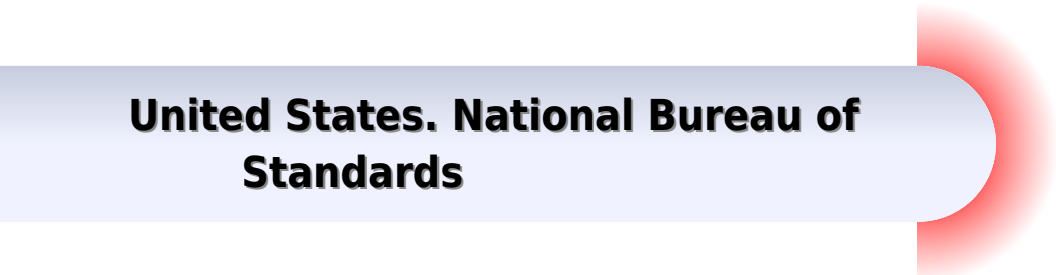
1.8 An element with the following Aufbau diagram will be classified as a:



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

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1. Understanding the eBook Physical Science Paper 2 Grade 10 November Exam 2014
 - The Rise of Digital Reading Physical Science Paper 2 Grade 10 November Exam 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper 2 Grade 10 November Exam 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physical Science Paper 2 Grade 10 November Exam 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper 2 Grade 10 November Exam 2014
 - Personalized Recommendations

- Physical Science Paper 2 Grade 10 November Exam 2014 User Reviews and Ratings
- Physical Science Paper 2 Grade 10 November Exam 2014 and Bestseller Lists
- 5. Accessing Physical Science Paper 2 Grade 10 November Exam 2014 Free and Paid eBooks
 - Physical Science Paper 2 Grade 10 November Exam 2014 Public Domain eBooks
 - Physical Science Paper 2 Grade 10 November Exam 2014 eBook Subscription Services
 - Physical Science Paper 2 Grade 10 November Exam 2014 Budget-Friendly Options
- 6. Navigating Physical Science Paper 2 Grade 10 November Exam 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Paper 2 Grade 10 November Exam 2014 Compatibility with Devices
 - Physical Science Paper 2 Grade 10 November Exam 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Paper 2 Grade 10 November Exam 2014
 - Highlighting and Note-Taking Physical Science Paper 2 Grade 10 November Exam 2014
 - Interactive Elements Physical Science Paper 2 Grade 10 November Exam 2014
- 8. Staying Engaged with Physical Science Paper 2 Grade 10 November Exam 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Paper 2 Grade 10 November Exam 2014
- 9. Balancing eBooks and Physical Books Physical Science Paper 2 Grade 10 November Exam 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Paper 2 Grade 10 November Exam 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Paper 2 Grade 10 November Exam 2014
 - Setting Reading Goals Physical Science Paper 2 Grade 10 November Exam 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Paper 2 Grade 10 November Exam 2014
 - Fact-Checking eBook Content of Physical Science Paper 2 Grade 10 November Exam 2014

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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