

**BAGONG SILANG NATIONAL HIGH SCHOOL**  
**1<sup>ST</sup> QUARTER EXAMINATION**  
**PHYSICAL SCIENCE**

NAME: \_\_\_\_\_  
GRADE: \_\_\_\_\_

DATE: \_\_\_\_\_  
SCORE: \_\_\_\_\_

Directions: Write the letter of the correct answer on the space provided.

- \_\_\_\_\_ 1. It is also known as nuclear fusion and the formation of new nuclei actions in the early stages of development of the universe.  
a. Nucleosynthesis                      b. S-Process                      c. R-Process                      d. Singularity
- \_\_\_\_\_ 2-4. There are two categories of star, the average star and massive star. The life cycle of these two stars are common from 1<sup>st</sup> to 3<sup>rd</sup> stages namely nebula, protostar, and main sequence star. What will be the next stages in the life of an average star until it reaches its death?  
a. Red super giant → Supernova → Black hole → neutron star 0  
b. Red giant → white dwarf → black dwarf 3  
c. Red giant → white dwarf → black hole 2  
d. Red supergiant → white dwarf → black dwarf 1
- \_\_\_\_\_ 5. He synthesized element with atomic number 43 using a linear particle accelerator.  
a. Ernest Rutherford    b. Ernest Lawrence    c. Dmitri Mendeleev    d. John Dalton
- \_\_\_\_\_ 6. The following are light elements EXCEPT;  
a. helium                      b. hydrogen                      c. lithium                      d. iron
- \_\_\_\_\_ 7. Which of the following molecule is nonpolar?  
a. NaCl                      b. HCl                      c. CO<sub>2</sub>                      d. NH<sub>3</sub>
- \_\_\_\_\_ 8. What type of chemical bond holds the atoms of water molecule together?  
a. Hydrogen bond    b. Ionic bond    c. Polar covalent bond    d. Nonpolar covalent bond
- \_\_\_\_\_ 9. Which of the following IMFAs is considered as the weakest?  
a. H-bonding    b. Ion-dipole    c. Dipole-dipole    d. London forces
- \_\_\_\_\_ 10. Which of the following statements is TRUE about nonpolar molecules?  
a. high boiling point    b. high melting point    c. low surface tension    d. low vapor pressure
- \_\_\_\_\_ 11. Forces that are present between an ion and a polar molecule  
a. ion-dipole    b. dipole-dipole    c. dispersion forces    d. hydrogen bonding
- \_\_\_\_\_ 12. H-bonding forms when the substances involved are polar and there are \_\_\_\_\_.  
a. H-atoms of a molecule interact with to O, N, F of other molecules.  
b. C-atoms attached to O, N, F.  
c. central atoms with O, N, F as attached atoms.  
d. unshared pair of electrons in the central atom.
- \_\_\_\_\_ 13. The amount of energy required to stretch or increase the surface of a liquid by a unit area  
a. specific heat    b. surface tension    c. vapor pressure    d. heat of vaporization
- \_\_\_\_\_ 14. Liquids can form spherical elastic film to minimize surface area. What intermolecular force is responsible for the formation of this film in water?  
a. H-bonding    b. ion-induced dipole    c. dipole-induced dipole    d. London dispersion force
- \_\_\_\_\_ 15. Which group of biomolecules carries and passes on the hereditary information of the organisms?  
a. carbohydrates    b. lipids    c. nucleic acids    d. proteins
- \_\_\_\_\_ 16. What are the elements that make up carbohydrates?  
a. C and H    b. C, H and N    c. C, H and O    d. C, H, O and N
- \_\_\_\_\_ 17-19. Is carbohydrates one of the most important biological macromolecules needed by a human body?  
a. Yes, because it is the primary source of energy. 3  
b. Yes, because it can be a storage of energy for a long period of time. 1  
c. Yes, because it can be found in rice, cereals, fruits and pastas. 2  
d. Yes, because it carries genetic information. 0
- \_\_\_\_\_ 20. The measure of how fast is the change in the concentration of the reactants or products in a chemical reaction.  
a. Activation Energy    b. Activation Rate    c. Chemical Reaction    d. Concentration
- \_\_\_\_\_ 21. A chemical change that occurs when two or more substances combine to form a new substance.  
a. Activation Energy    b. Chemical Kinetics    c. Chemical Reaction    d. Product

# Concepts And Challenges Physical Science Answer Key

**Mark Steyvers**



**Concepts And Challenges Physical Science Answer Key:**

This book delves into Concepts And Challenges Physical Science Answer Key. Concepts And Challenges Physical Science Answer Key is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Concepts And Challenges Physical Science Answer Key, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Concepts And Challenges Physical Science Answer Key
    - Chapter 2: Essential Elements of Concepts And Challenges Physical Science Answer Key
    - Chapter 3: Concepts And Challenges Physical Science Answer Key in Everyday Life
    - Chapter 4: Concepts And Challenges Physical Science Answer Key in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Concepts And Challenges Physical Science Answer Key. This chapter will explore what Concepts And Challenges Physical Science Answer Key is, why Concepts And Challenges Physical Science Answer Key is vital, and how to effectively learn about Concepts And Challenges Physical Science Answer Key.
  3. In chapter 2, this book will delve into the foundational concepts of Concepts And Challenges Physical Science Answer Key. The second chapter will elucidate the essential principles that need to be understood to grasp Concepts And Challenges Physical Science Answer Key in its entirety.
  4. In chapter 3, the author will examine the practical applications of Concepts And Challenges Physical Science Answer Key in daily life. This chapter will showcase real-world examples of how Concepts And Challenges Physical Science Answer Key can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Concepts And Challenges Physical Science Answer Key in specific contexts. This chapter will explore how Concepts And Challenges Physical Science Answer Key is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Concepts And Challenges Physical Science Answer Key. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Concepts And Challenges Physical Science Answer Key.

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