

**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

**Sabine Zange**



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## **Table of Contents Concepts And Challenges Physical Science Answer Key**

1. Understanding the eBook Concepts And Challenges Physical Science Answer Key
  - The Rise of Digital Reading Concepts And Challenges Physical Science Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Concepts And Challenges Physical Science Answer Key
  - 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 Concepts And Challenges Physical Science Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Concepts And Challenges Physical Science Answer Key
  - Personalized Recommendations

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

- 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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