

**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                      c. low surface tension  
b. high melting point                      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

# Apex Learning Physical Science Answer Key

**E Durkheim**



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