



Republic of the Philippines
Department of Education
REGION III

REGIONAL DIAGNOSTIC ASSESSMENT IN PHYSICAL SCIENCE

Name _____ Score _____

Direction: Choose the correct answer for each item.

1. What type of nuclear synthesis is believed to be the origin of the production of heavy elements?
A. Big Bang Nucleosynthesis
B. Primordial Nucleosynthesis
C. Stellar Nucleosynthesis
D. Supernova Nucleosynthesis
2. What is the ability of an atom in a compound to attract electrons towards itself called?
A. Electromotive force
B. Electron Affinity
C. Electronegativity
D. Ionization energy
3. Which of the following is the measure of a liquid's resistance to flow?
A. Boiling point
B. Melting point
C. Solubility
D. Viscosity
4. Which of the following is the building block of protein?
A. Amino acid
B. Glycogen
C. Monomer
D. Nucleotide
5. What do you call the substance that increases the rate of chemical reaction without itself being consumed by the reaction?
A. Activation energy
B. Catalyst
C. Product
D. Reactant
6. Which of the following describes a stellar nucleosynthesis?
A. It is the process by which elements are formed within stars.
B. It is the formation of elements during a supernova explosion
C. It is the formation of light elements such as helium and hydrogen
D. It is the process by which elements are produced within gas clouds
7. Which of the following statements is TRUE about non polar molecules?
A. They have high boiling point
B. They have high melting point
C. They have low surface tension
D. They have low vapor pressure
8. Which will result in an ion- dipole interaction?
A. Attraction between an ion and a polar molecule
B. Attraction between a polar with a polar molecule
C. Repulsion between dipole and another dipole
D. Repulsion between a polar and a nonpolar molecule
9. Why are lipids insoluble in water?
A. Because Lipids are hydrophilic
B. Because Lipids are hydrophobic
C. Because Lipids are neutral
D. Because Lipids are ionic compound
10. What will be the effect of temperature rise in a chemical reaction?
A. It increases molecular concentration and slows down reaction rate
B. It increases the number of effective collisions among reactants, thus increasing the reaction rate
C. It decreases the system's energy and limits how much further reaction can take place
D. It decreases the number of collisions and the energy of molecules to limit further reaction

Physical Science Department Paper November 2014 grade

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Physical Science Department Paper** **November 2014** **grade**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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