

BAGONG SILANG NATIONAL HIGH SCHOOL
1ST 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 1st to 3rd 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. CO₂ d. NH₃
- _____ 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

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Robert R. Redfield



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Cary I. Sneider,2014-11-25 How to engineer change in your middle school science classroom With the Next Generation Science Standards your students won t just be scientists they ll be engineers But you don t need to reinvent the wheel Seamlessly weave engineering and technology concepts into your middle school math and science lessons with this collection of time tested engineering curricula for science classroom materials Features include A handy table that leads you to the chapters you need In depth commentaries and illustrative examples A vivid picture of each curriculum its learning goals and how it addresses the NGSS More information on the integration of engineering and technology into middle school science education Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress. Copyright Office,1978 *El-Hi Textbooks and Serials in Print* ,1985 **Catalog of Copyright Entries, Fourth Series** Library of Congress. Copyright Office,1978 **El-Hi Textbooks and Serials in Print, 1995** R R Bowker Publishing,1995-02 Recording for the Blind & Dyslexic, ... Catalog of Books ,1996 **Harcourt Science: Physical science, [grade] 3, units E and F, teahcer's ed** ,2000 **El-Hi Textbooks in Print** ,1984 **Harcourt Science: Physical science [grade] 6, units E and F, teacher's ed** ,2000 *Integrated Marine Biosphere Research: Ocean Sustainability, Under Global Change, for the Benefit of Society* Carol Robinson,Annette Breckwoldt,Alistair James Hobday,Eugene J. Murphy,Prateep Kumar Nayak ,Alice Newton,2025-11-11 Interdisciplinary research spanning natural and social sciences and society is needed to inform decision making for sustainable use and conservation of marine resources and services The Integrated Marine Biosphere Research IMBeR project is an interdisciplinary global environmental change research network with the mission to Promote integrated marine research and enable capabilities for developing and implementing ocean sustainability options within and across the natural and social sciences and communicate relevant information and knowledge needed by society to secure sustainable productive and healthy oceans To achieve this mission the IMBeR science plan identifies three objectives which inform all IMBeR activities including the 2019 IMBeR Future Oceans2 open science conference 1 Understanding and quantifying the state and variability of marine ecosystems 2 Improving scenarios predictions and projections of future ocean human systems at multiple scales and 3 Improving and achieving sustainable ocean governance This Research Topic welcomes submissions including perspective and opinion papers policy briefs original research articles and reviews related to any of the three interconnected IMBeR objectives These submissions could cover 1 the mechanisms of natural climate variability and anthropogenic global change and impacts on marine biogeochemical cycles species and ecosystems and human well being and livelihoods 2 modelling studies providing quantitative projections and predictions of future coupled human marine ecosystems including human well being and

livelihoods governance processes and infrastructure at global regional and local scales 3 syntheses of integrated research highlighting key knowledge gaps recommendations for future action and quantification of the impact of interdisciplinary networks and capacity building activities and 4 papers related to improving the science policy society interface of marine research and aiding transition towards sustainable ocean and coastal governance including provision and implementation of trade off options for adaptation and mitigation improving research co design and co production mechanisms and ocean literacy understanding of the role of economic social cultural and political norms and values in marine governance and integration of human behaviour and decision making into global regional and local models The Topic Editors Carol Robinson Annette Breckwoldt Alistair Hobday Eugene Murphy Prateep Nayak and Alice Newton declare that they are members of the IMBeR scientific steering committee or IMBeR Human Dimensions Working Group and are collaborating with the IMBeR research community

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