

Paper 1 – Multiple Choice Questions (10 marks)

1. *Energy is stored in a battery and in a box of matches. Which type of energy is stored in each of them?*

	a battery	a box of matches
A.	chemical	chemical
B.	chemical	internal (thermal)
C.	electrical	chemical
D.	electrical	internal (thermal)

2. *A gasoline-powered vehicle goes up a hill from point X to point Y. What energy transformation must occur in the car's engine?*

- A. Chemical energy into mechanical energy
 B. Electrical energy into chemical energy
 C. Heat energy into chemical energy
 D. Mechanical energy into nuclear energy

3. *Which of these resources will most likely be depleted first?*

- A. Wind
 B. Fossil fuels
 C. Solar energy
 D. Water

4. *What type of wasted energy is given off a light bulb?*

- A. Elastic
 B. Heat
 C. Light
 D. Kinetic

5. *What do we call the graph which represents energy?*



- A. Scatter Graph
 B. Stinky Diagram
 C. Sankey Diagram
 D. Bar Chart

6. *Where does most of the energy go for this transformation?*



- A. heat
 B. light
 C. electrical
 D. joules

7. *This diagram shows the energy transferred by an electric heater in one second:*



How much energy is wasted each second?

- A. 12J
 B. 38J
 C. 50J
 D. 88J

8. *What is an advantage to solar energy?*

- A. it pollutes
 B. it is gathered 24 hours a day
 C. it works well no matter where you are in the world
 D. it is renewable

9. *What law states that energy cannot be created or destroyed but can only be changed from one form to another?*

- A. law of conservation of energy
 B. law of conservation of matter
 C. law of gravity
 D. law of proportions

Multiple Choice Questions On Bond Energy

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Multiple Choice Questions On Bond Energy:

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Enger, Enger, Frederick C.. Ross, 2003 *Study Guide to Accompany Raven and Johnson Biology* David A. Stetler, 1986

Textbook of Biochemistry with Clinical Correlations Thomas M. Devlin, 2002 This book presents the biochemistry of mammalian cells relates events at the cellular level to the subsequent physiological processes in the whole animal and cites examples of human diseases derived from aberrant biochemical processes **Test Bank for Starrs**, 2006 **Study Guide**

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Biology, Study Guide Gilbert D. Brum, Larry McKane, Gerald Karp, 1993-10-28 This lively richly illustrated text makes biology relevant and appealing revealing it as a dynamic process of exploration and discovery Portrays biologists as they really are human beings with motivations misfortunes and mishaps much like everyone has Encourages students to think critically solve problems apply biological principles to everyday life **Chemical Bonds and Bonds Energy** Robert Thomas Sanderson, 1976-06-28 Chemical Bonds and Bonds Energy Second Edition provides information pertinent to the fundamental aspects of contributing bond energy and bond dissociation energy This book explores the values that are useful in the interpretation of significant phenomena such as product distribution and reaction mechanisms Organized into 12 chapters this edition begins with an overview of the quantitative relationship among three basic properties of an atom namely nonpolar covalent radius electronegativity and homonuclear single covalent bond energy This text then examines the quantitative means of evaluating the partial atomic charges that result from initial differences in the electromagnetivity of atoms that form a compound Other chapters consider the recognition of the reduction of bond weakening not by multiplicity and in certain types of single covalent bonds The final chapter deals with the application of the principal ideas and

techniques to the oxidation of ethane This book is a valuable resource for organic and inorganic chemists

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