

Chemistry 102 – Chapter 6 Summary and Review Answers

1. What are the definitions of system, surroundings, and universe? What is the first law of thermodynamics?

Answer: Rather than give the textbook definitions for this here. Try this: write down what you think the definition is, then consult the textbook (within Chapter 6 rather than the glossary) and write this definition. Compare the two and determine if they are the same. If not, try and revise your definition to be correct but still in your own words. Give a diagram to assist this.

2. What is the relationship between heat and enthalpy? How is enthalpy different from internal energy? When is change in enthalpy equal to change in internal energy?

Answer: Energy equals work and heat (or according to the first law of thermodynamics, the energy of a system is constant unless work is done on the system or is done by the system or heat is evolved or absorbed). So we have $\Delta E = w + q$.

Considering expansion or compression work (PV work), work is $-P\Delta V$. If the volume is constant, then $\Delta V = 0$ and $w = 0$. Then $\Delta E = q_V$ (constant volume). However, under constant pressure (a more common set of experimental conditions – open container under the pressure of the atmosphere), work is not zero ($\Delta V \neq 0$). Now, if we define q_P as a state function, enthalpy, $\Delta H = q_P$. In relation to internal energy, $\Delta E = \Delta H - P\Delta V$, or $\Delta H = \Delta E + P\Delta V = \Delta E + RT\Delta n_{\text{gas}}$; particularly for reactions involving $\Delta n_{\text{gas}} \neq 0$, $\Delta E \neq \Delta H$. Internal energy (as measured by change in energy entering or leaving the system) is heat and work; change in enthalpy is the heat measured at constant pressure.

3. When a hot sample of iron is placed in a constant pressure calorimeter containing cold water and assuming no loss of heat to the surroundings, what occurs with regards to the heat transfer between the iron and water? How does this translate to the initial temperature of the water/iron and the final temperature of the water and iron?

Answer: The heat transfer between the iron and water has the thermal energy flowing from the iron to the water with the iron losing heat (energy) and the water gaining:

$$-q_{\text{iron}} = q_{\text{water}}$$

The water was initially cold and because of the heat gained, is now warmer or:

$$T_{\text{f(water)}} > T_{\text{i(water)}} \qquad \Delta T_{\text{water}} > 0$$

The iron was initially hot and because of the heat loss, is now colder or:

$$T_{\text{i(iron)}} > T_{\text{f(iron)}} \qquad \Delta T_{\text{iron}} < 0$$

Chemistry 102 Course Manual Answers

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Chemistry 102 Course Manual Answers:

CBSE Class XII - Chemistry: A Complete Preparation Book For Class XII Chemistry| Topic Wise EduGorilla Prep Experts,2022-09-20 **General Chemistry 102 - The Easy Way** David R. Khan,2013-05-01 This book is intended to be used by students taking General Chemistry 102 with Dr David R Khan It has been formatted to contain a summary of each chapter covered in the course a slide by slide lecture series and answers to assigned homework problems This book also contains additional multiple choice test format problem sets along with the answers to those questions **Year Book and Announcements** Northern Michigan University,1925 **Catalog** Huron College (Huron, S.D.),1912 **Style Book of Typographical Practice at the University Printing Office, Columbia University, New York City** Columbia University. Press,1917 **Undergraduate Catalog** North Carolina State University,1921 **The Britannica Year-book 1913** Hugh Chisholm,1913 **Journal of Education and School World** ,1895 **Journal of Education** ,1917 **The Catalog of Orlando Junior College, University of Orlando** ,1962 **Calendar** University of Saskatchewan,1959 **The Journal of Education** ,1917 **DU-JAT : Delhi University Joint Admission Test Guide Book - 12 Full Length Mock Tests (1200 Solved Objective Questions) with Free Access to Online Tests** EduGorilla Prep Experts,2020-12-28 Delhi University is one of the best Universities in India to pursue UG education Getting admission in the Delhi University is a matter of pride and it is one of the oldest and most reputed universities in India DU JAT is a national level entrance exam conducted for admission to professional undergraduate programmes offered by 16 colleges affiliated to Delhi University and its provides admission to the the courses are Bachelor of Management Studies BMS Bachelor of Business Administration Financial Investment Analysis BA Hons in Business Economics DU JAT is a computer based online test and it is conducted once in a year **Annual Catalog of the Michigan State Normal College for ...** Eastern Michigan University,Michigan State Normal College,1937 **Augustana College Catalog** Augustana College (Rock Island, Ill.),1957 **American Chemical Journal** Ira Remsen,Charles August Rouiller,1912 *Announcement, College of Arts and Sciences* University of Colorado (Boulder campus). School of Arts and Sciences,1926 **Annual Catalogue of the Florida State Normal and Industrial College for Colored Students** Florida Agricultural and Mechanical College,Florida Agricultural and Mechanical College for Negroes,State Normal and Industrial College for Colored Students (Tallahassee, Fla.),State Normal and Industrial School for Colored Students (Tallahassee, Fla.),1929 *Education Outlook* ,1894 *Educational Times* ,1894

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