Name Class

Assessment)

# Chapter Test A

#### Chapter: Acids and Bases

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- Which of the properties listed below is not characteristic of an acid?
  - a. a sour taste
  - b. a slippery feel
  - c. the ability to conduct an electric current
  - d. reactivity with metals
  - 2. Which is an example of a weak acid?
    - a. HCI
    - **b.** H<sub>2</sub>SO<sub>4</sub>
    - c. HaPO<sub>4</sub>
    - d. HNO<sub>a</sub>
- \_\_\_\_\_ 3. Acetic acid is found in
  - a. vinegar.
  - b. the stomach.
  - c. antacids.
  - d. oranges.
- \_\_\_\_\_ 4. A characteristic of an Arrhenius base is that it
  - a. is an electrolyte.
  - b. tastes bitter.
  - c. dissociates to form OH ons.
  - d. All of the above
- 5. Which of the following is a Brønsted-Lowry base?
  - a. HCl
  - b. HCO<sub>a</sub>
  - c. H<sub>0</sub>O \*
  - d.  $H_0PO_4$

6. In the reaction represented by the equation

$$H_2C_2O_4(aq) + CH_3NH_2(aq) \Leftrightarrow HC_2O_4^-(aq) + CH_3NH_2^+(aq),$$

which of these is a conjugate acid-base pair?

- a.  $H_2C_2O_4(aq)$  and  $CH_3NH_2(aq)$
- b. H<sub>2</sub>C<sub>2</sub>O<sub>4</sub>(aq) and CH<sub>3</sub>NH<sup>\*</sup><sub>3</sub>(aq)
- c. CH<sub>3</sub>NH<sub>2</sub>(aq) and CH<sub>3</sub>NH'<sub>3</sub>(aq)
- d. HC2O4(aq) and CH2NH2(aq)

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**Arshad Iqbal** 

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important key objectives equations and concepts making it easier for students to locate chapter content while applications to a wide range of disciplines such as biology chemical engineering biochemistry and medicine deepen students understanding of the relevance of chemistry beyond the classroom Modern Methods of Drug Discovery Alexander Hillisch, Rolf Hilgenfeld, 2012-11-28 Research in the pharmaceutical industry today is in many respects guite different from what it used to be only fifteen years ago There have been dramatic changes in approaches for identifying new chemical entities with a desired biological activity While chemical modification of existing leads was the most important approach in the 1970s and 1980s high throughput screening and structure based design are now major players among a multitude of methods used in drug discov ery Quite often companies favor one of these relatively new approaches over the other e g screening over rational design or vice versa but we believe that an intelligent and concerted use of several or all methods currently available to drug discovery will be more successful in the medium term What has changed most significantly in the past few years is the time available for identifying new chemical entities Because of the high costs of drug discovery projects pressure for maximum success in the shortest possible time is higher than ever In addition the multidisciplinary character of the field is much more pronounced today than it used to be As a consequence researchers and project managers in the pharmaceutical industry should have a solid knowledge of the more important methods available to drug discovery because it is the rapidly and intelligently combined use of these which will determine the success or failure of preclinical projects

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