Assignment 7

Which of the following statements is true? Mark all that are true.

- A. Which of the following statements is true? Mark all that are true.
- B. Which of the following statements is true? Mark all that are true.
- C. Which of the following statements is true? Mark all that are true.
- D. Which of the following statements is true? Mark all that are true.

Which of the following molecules is a common solvent for extraction of cellulose and lignin?

- A. Cellulose
- B. Lignin
- C. Acetone
- D. Benzene
- E. Water

Which of the following acids is a common solvent for extraction of cellulose and lignin?

- A. Acetic acid
- B. Sulfuric acid
- C. Hydrochloric acid
- D. Nitric acid
- E. Phosphoric acid

What is the correct statement about the reaction of sodium hydroxide with water?

- A. A monoprotic acid
- B. A diprotic acid
- C. A triprotic acid
- D. A none of the above

What is the purpose of adding sodium hydroxide to the extraction solution?

- A. To increase the pH of the solution
- B. To remove impurities from the solution
- C. To precipitate lignin from the solution
- D. To provide a suitable environment for the extraction process

According to the definitions of basic and nonbasic reactions:

- A. A change in the degree of basicity of the system
- B. A change in the degree of acidity of the system
- C. A change in the degree of basicity of the system
- D. A change in the degree of acidity of the system

According to the definitions of basic and nonbasic reactions:

- A. A change in the degree of basicity of the system
- B. A change in the degree of acidity of the system
- C. A change in the degree of basicity of the system
- D. A change in the degree of acidity of the system

A reaction is in the range of basic reactions between...