# Agriculture and the Ethanol Industry Quiz Unit 1 Lesson 1

**Part One: Matching**

Instructions: Match the term with the correct response. Write the letter of the term by the definition.

A.Octane Rating

B. Ethanol

C. Alcohol

\_\_\_\_ 1. Can be used as a fuel when blended with gasoline or when it is in its original

state.

\_\_\_\_ 2. An organic compound that has one or more hydroxyl groups attached to a

carbon atom.

\_\_\_\_ 3. The measure of the resistance of gasoline and other fuels to auto ignition in

spark ignition internal combustion engines.

**Part Two: Completion**

Instructions: Provide the word or words to complete the following statements.

1. Each bushel of corn processed yields \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gallons of ethanol gasoline.
2. Each bushel of soybeans yields \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gallons of biodiesel.
3. Ethanol boils at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. Ethanol \_\_\_\_\_\_\_\_\_\_\_\_ octane in gasoline which reduces engine knocks.
5. Biodiesel is made from 17 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and one ester group.
6. Ethanol helps to \_\_\_\_\_\_\_\_\_\_\_\_\_\_ price for the American farmer.
7. In its pure form, Ethanol is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, clear liquid with a mild characteristic odor.

**Part Three: Short Answer**

Instructions: Provide information to answer the following question.

1. Give two reasons why ethanol needs to be further researched to serve as a fuel alternative?