



Organic Chemistry Multiple Choice Questions

Set 5 (Chemistry Only)

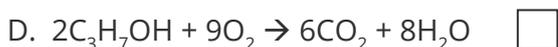
You may use a periodic table to help you answer these questions.

Tick **one** box.

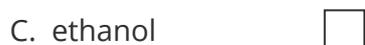
1. Which of these compounds is an alkene?



2. Which is a correct, balanced equation for the complete combustion of propanol?



3. CH_3COOH is the structural formula of which substance?



4. Alcohols can be produced by fermentation of sugars. Which of the following conditions is **not** necessary for the fermentation process?



5. Which of these substances would react with sodium carbonate to produce carbon dioxide?





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6. Which of the following is **not** an example of a natural polymer?
- A. amino acid
 - B. cellulose
 - C. DNA
 - D. starch
7. Organic compound X has a fruity smell and is formed in the reaction between methanol and propanoic acid. Which homologous series does compound X belong to?
- A. alcohol
 - B. alkane
 - C. carboxylic acid
 - D. ester
8. What is a nucleotide?
- A. a monomer of DNA
 - B. a monomer of cellulose
 - C. a polymer made of amino acids
 - D. a polymer made of starch
9. Which two functional groups does an amino acid molecule contain? **(HT Only)**
- A. $C=C$ and $-COO-$
 - B. $-NH_2$ and $-OH$
 - C. $-NH_2$ and $-COOH$
 - D. $-OH$ and $-COOH$
10. Are carboxylic acids strong acids or weak acids? Why? **(HT Only)**
- A. strong, because they fully dissociate into their ions
 - B. strong, because they have a high pH
 - C. weak, because they have a low pH
 - D. weak, because they only partially dissociate into their ions