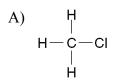
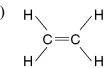
- 1. Ethanol and dimethyl ether have different chemical and physical properties because they have different
 - A) functional groups
 - B) molecular masses
 - C) numbers of covalent bonds
 - D) percent compositions by mass
- 2. Given the structural formulas for two organic compounds:

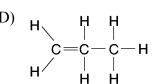
The differences in their physical and chemical properties are primarily due to their different

- A) number of carbon atoms
- B) number of hydrogen atoms
- C) molecular masses
- D) functional groups
- 3. Which structural formula is *incorrect*?

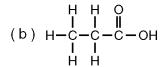




C)



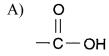
4. Given the formulas of four organic compounds:



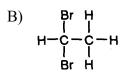
Which pair below contains an alcohol and an acid?

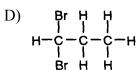
- A) a and b
- B) a and c
- C) *b* and *d*
- D) c and d

5. Which functional group, when attached to a chain of carbon atoms, will produce an organic molecule with the characteristic properties of an aldehyde?



- 6. Which formula represents a ketone?
 - A) HCOOH
- B) HCHO
- C) CH₃COCH₃
- D) CH₃CH₂OH
- 7. Which structural formula represents
 - 1,1-dibromopropane?





- 8. The compound CH₃COOCH₃ is classified as
 - A) an acid
- B) an ester
- C) a hydrocarbon
- D) an alcohol
- 9. Which class of organic compounds has molecules that contain nitrogen atoms?
 - A) alcohol
- B) amine
- C) ether
- D) ketone
- 10. What is the general formula for an ether?