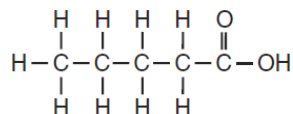
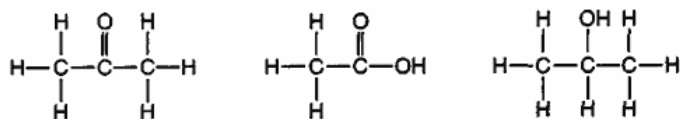


1. Given the formula for an organic compound:



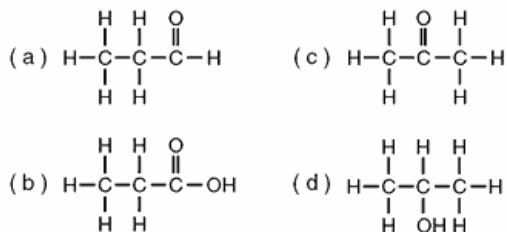
This compound is classified as an

- A) aldehyde                      B) amine  
 C) ester                            D) organic acid
2. What is the total number of carbon atoms in a molecule of ethanoic acid?  
 A) 1      B) 2      C) 3      D) 4
3. Given the three organic structural formulas shown below:



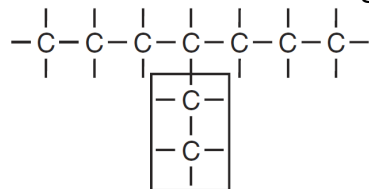
Which organic compound classes are represented by these structural formulas, as shown from left to right?

- A) ester, organic acid, ketone  
 B) ester, aldehyde, organic acid  
 C) ketone, aldehyde, alcohol  
 D) ketone, organic acid, alcohol
4. Given the formulas of four organic compounds:



Which pair below contains an alcohol and an acid?

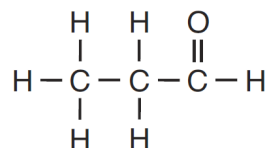
- A) *a* and *b*                      B) *a* and *c*  
 C) *b* and *d*                      D) *c* and *d*
5. Given the formula for an organic compound:



What is the name given to the group in the box?

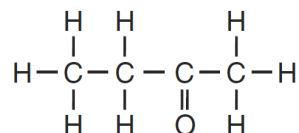
- A) butyl                            B) ethyl  
 C) methyl                          D) propyl

6. Given the formula:



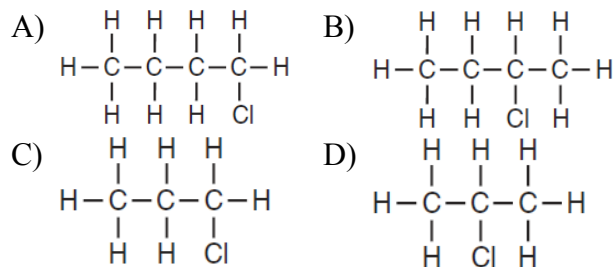
What is the chemical name of this compound?

- A) propane                      B) propanal  
 C) propanol                      D) propanone
7. Given the formula for a compound:



A chemical name for this compound is

- A) butanal                      B) butanol  
 C) butanone                      D) butanoic acid
8. Which formula represents a molecule of 2-chlorobutane?



9. Which class of compounds contains
- at least one*
- element from Group 17 of the Periodic Table?

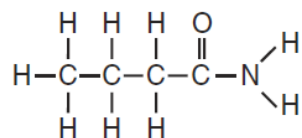
- A) aldehyde                      B) amine  
 C) ester                            D) halide
10. Ethanoic acid and 1-butanol can react to produce water and a compound classified as an
- A) aldehyde                      B) amide  
 C) ester                            D) ether
11. The reaction between an organic acid and an alcohol produces
- A) an aldehyde                      B) a ketone  
 C) an ether                            D) an ester

12. Which class of organic compounds contains nitrogen?

- A) aldehyde                      B) alcohol  
 C) amine                            D) ether

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13. Given the formula:



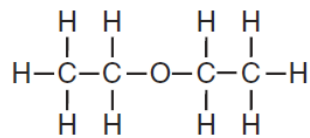
This compound is classified as

- A) an aldehyde                  B) an amide  
C) an amine                      D) a ketone

14. Which compound is classified as an ether?

- A)  $\text{CH}_3\text{CHO}$                       B)  $\text{CH}_3\text{OCH}_3$   
C)  $\text{CH}_3\text{COCH}_3$                   D)  $\text{CH}_3\text{COOCH}_3$

15. Given the structural formula:



The compound represented by this formula can be classified as an

- A) organic acid                  B) ether  
C) ester                              D) aldehyde
-