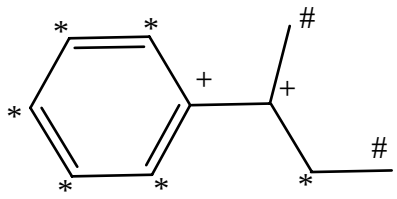
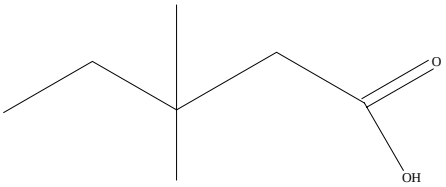
CH1011 Tutorial 3 Answers

1. Identify the carbons in the following molecule as **primary**, **secondary** or **tertiary**.



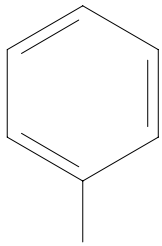
2^o 3^o 1^o
(all *) (all +) (all #)

2. Write down condensed structures for the following molecules and name the class of compound that each one belongs to:



$CH_3CH_2C(CH_3)_2CH_2C(O)OH$

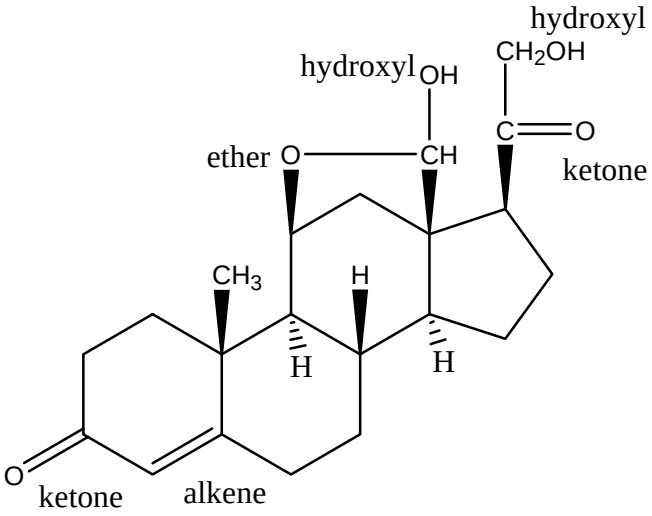
Carboxylic acid



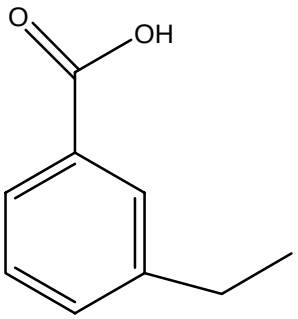
$CH_3CCHCHCHCHCH$

arene

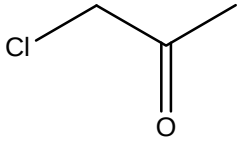
3. Identify the functional groups in the following molecule (aldosterone).



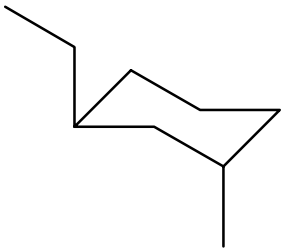
4. (a) 3-ethylbenzoic acid



(b) 1-chloro-2-propanone

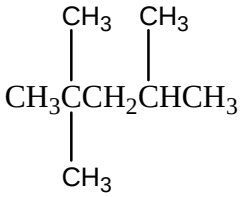


5. Name the following compounds:



(a)

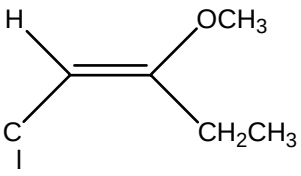
1-ethyl-3-methylcyclohexane



(b)

22,4-trimethylpentane

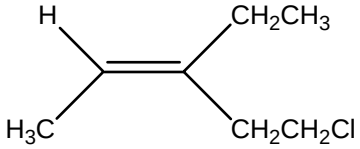
6. Assign E or Z configurations to the following substituted alkenes.



Priorities

low	high
high	low

E-alkene



low	low
high	high

Z-alkene

7. Draw **hydrogen bonds** between ethanol and 2 water molecules