

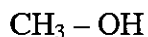
WS 4 - Alcohols, Organic Halides and Carboxylic Acids

KEY

Alcohols

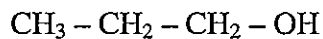
1. Name the following compounds:

a)



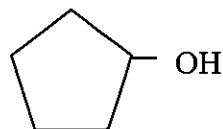
methanol

c)



propan-1-ol

g)



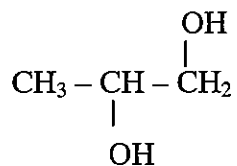
cyclopentanol

b)



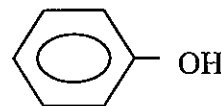
ethanol

d)



propane-1,2-diol

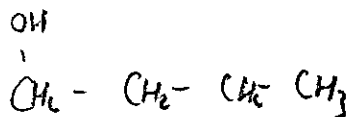
h)



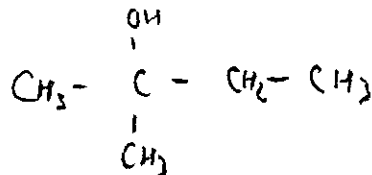
phenol

2. Draw each of the following compounds:

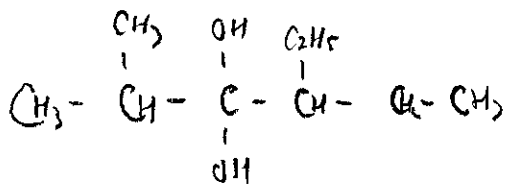
a) butan-1-ol



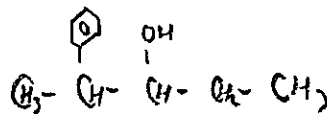
b) 2-methylbutan-2-ol



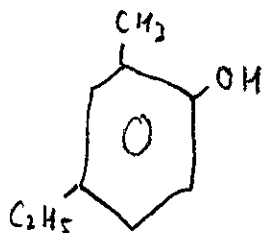
c) 4-ethyl-2-methylhexane-3,3-diol



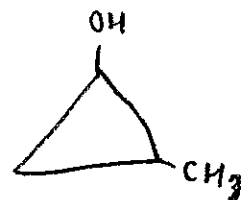
d) 2-phenylpentan-3-ol



e) 4-ethyl-2-methylphenol

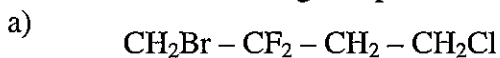


f) 2-methylcyclopropanol

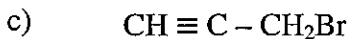


Organic Halides

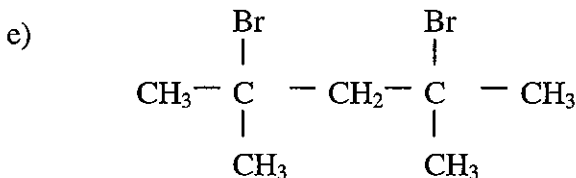
1. Name the following compounds:



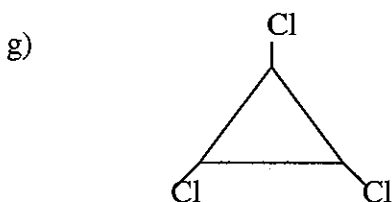
1-bromo-4-chloro-2,2-difluorobutane



3-bromopropyne



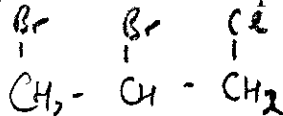
2,4-dibromo-2,4-dimethylpentane



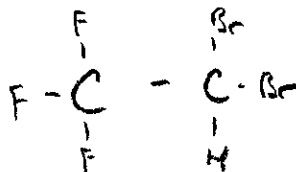
1,2,3-trichloropropane

2. Draw each of the following compounds:

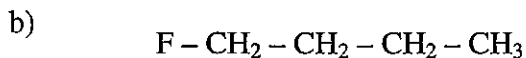
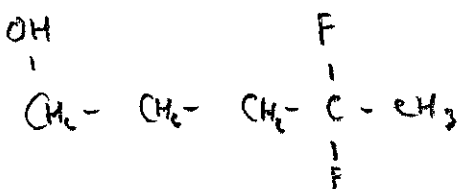
a) 1,2-dibromo-3-chloropropane



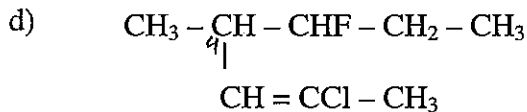
c) 2-bromo-2-chloro-1,1,1-trifluoroethane



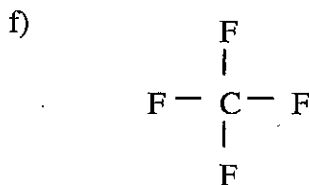
e) 4,4-difluoropentan-1-ol



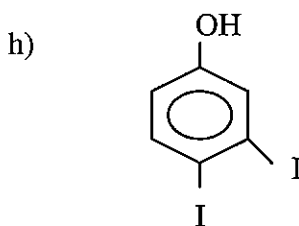
1-fluorobutane



2-chloro-5-fluoro-4-methylhept-2-ene

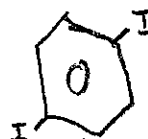


tetrafluoromethane

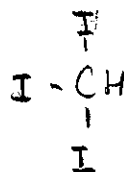


3,4-diiodophenol

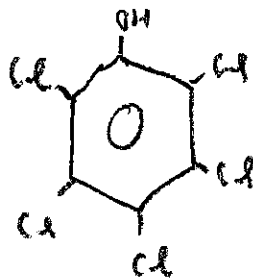
b) 1,4-diiodobenzene



d) triiodomethane

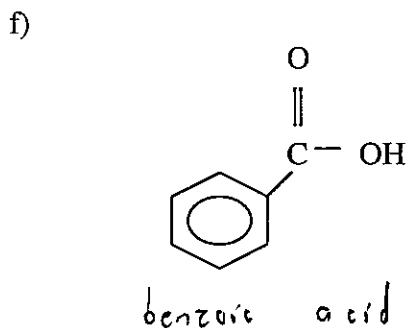
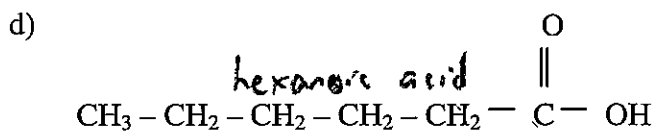
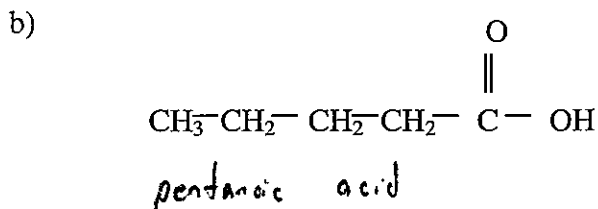
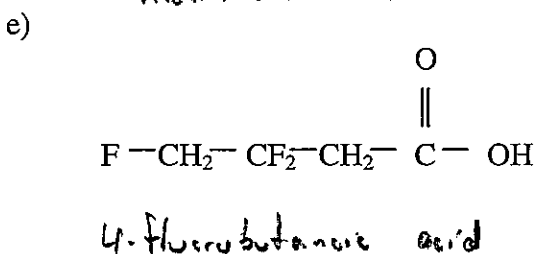
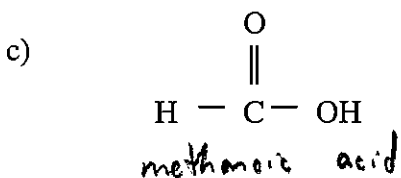
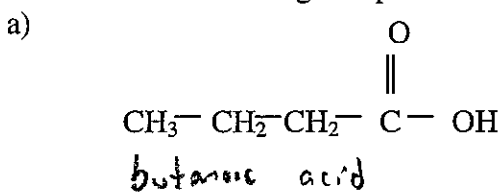


f) pentachlorophenol

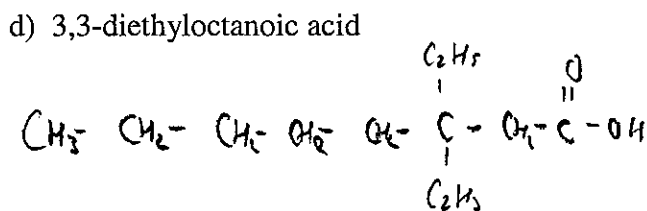
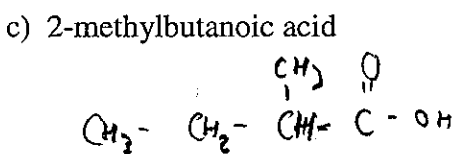
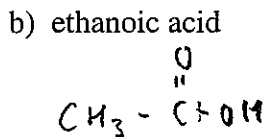
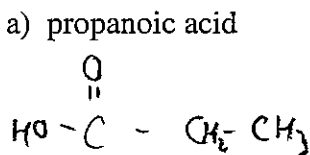


Carboxylic Acids

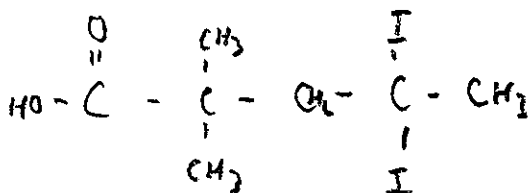
1. Name the following compounds:



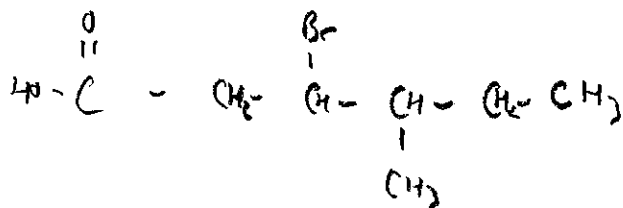
2. Draw each of the following compounds:



e) 4,4-diiodo-2,2-dimethylpentanoic acid



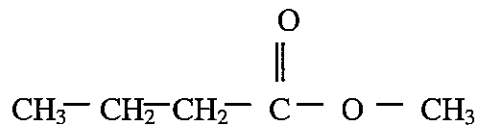
f) 3-bromo-4-methylhexanoic acid



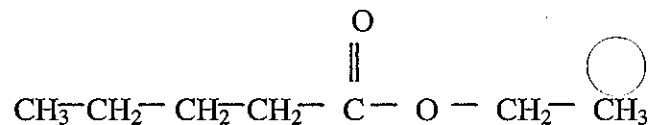
WS 5 – Esters and Esterification

3. Name the following compounds:

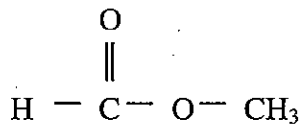
a)



b)



c)



4. For each of the following, write the reaction that would form the compound given:

a) methyl pentanoate

b) ethyl octanoate

c) heptyl methanoate