

acid group at the  
end.

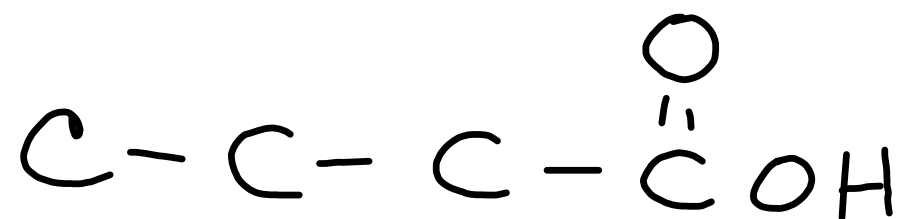


Weak acids do not  
dissociate completely



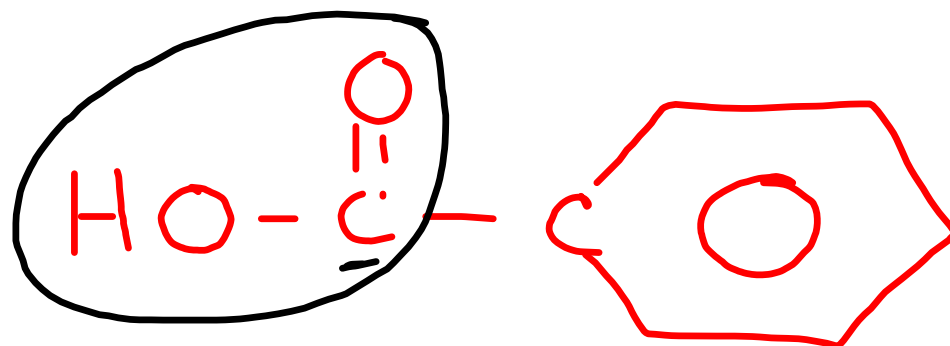
Carboxylic acid  
group

a.



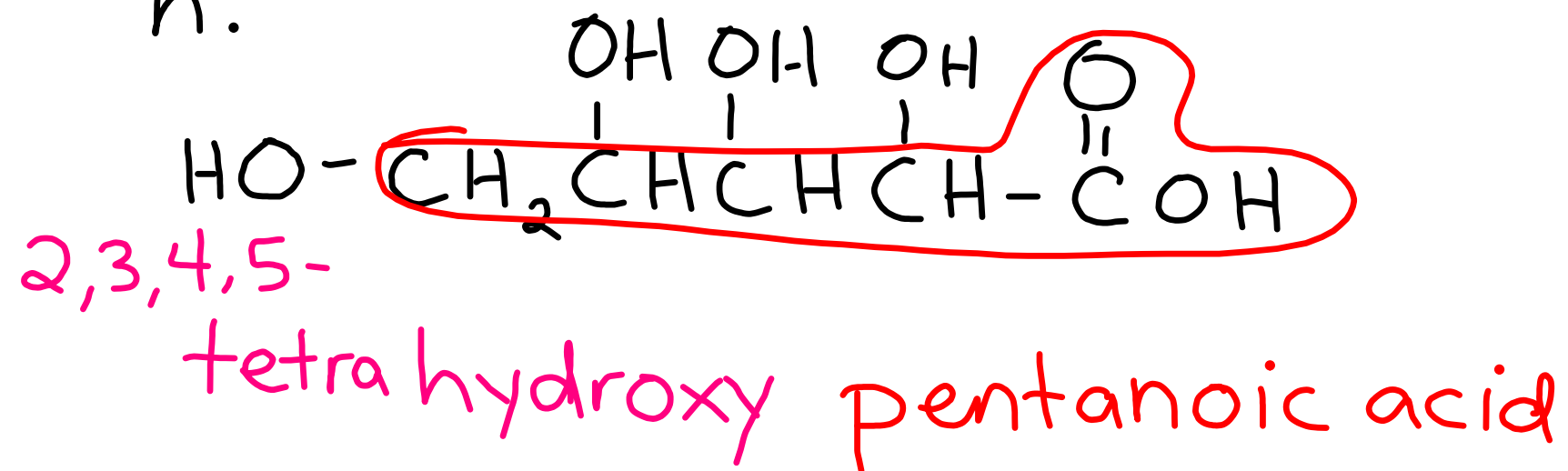
butanoic acid

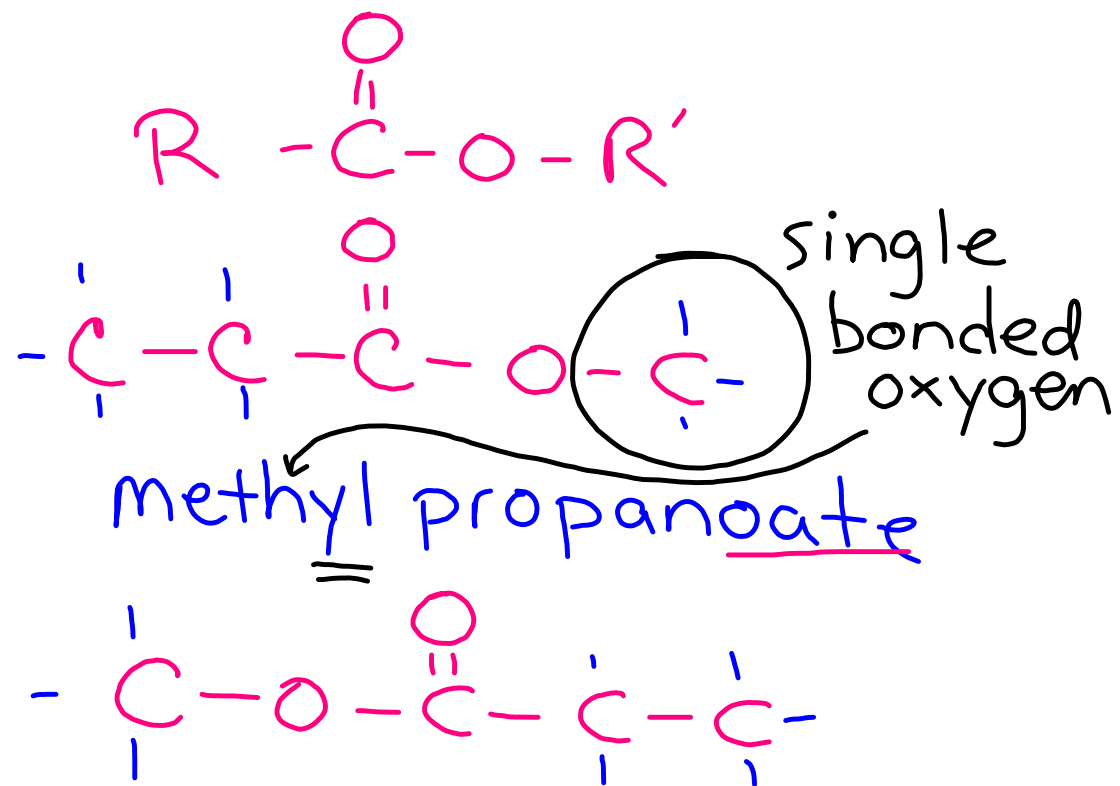
C.

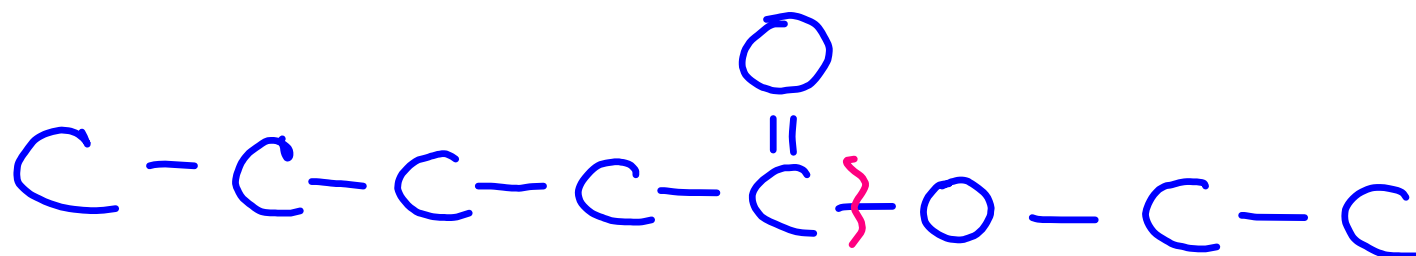


benzoic acid  
phenyl methanoic acid

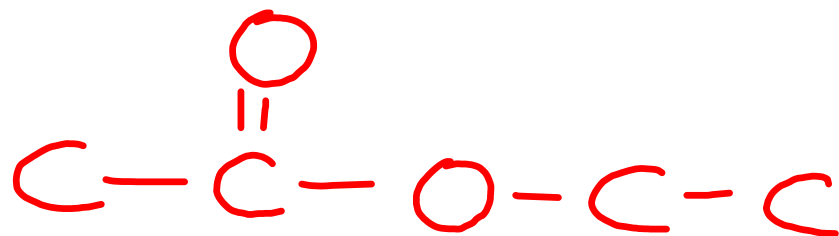
h.



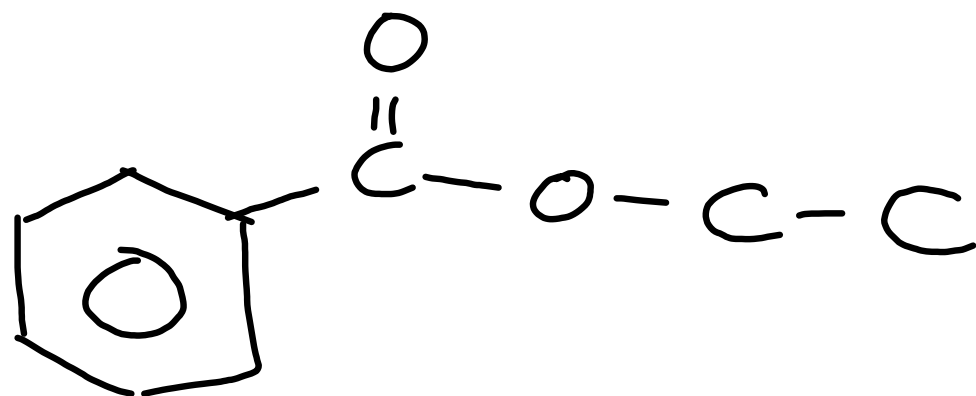




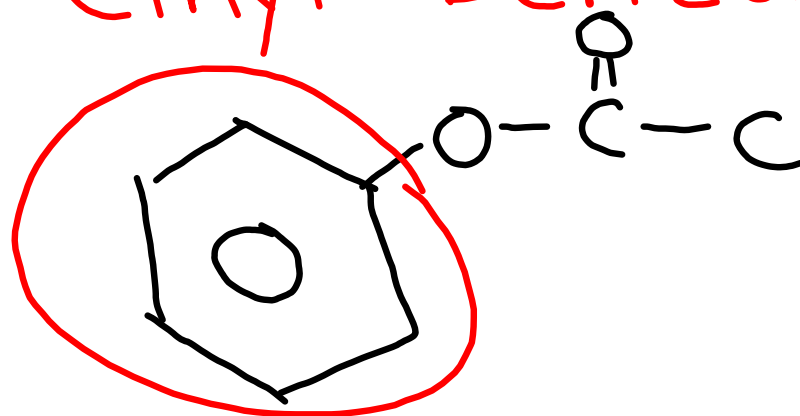
ethyl pentanoate



ethyl ethanoate



ethyl benzoate



benzyl ethanoate

# Amines





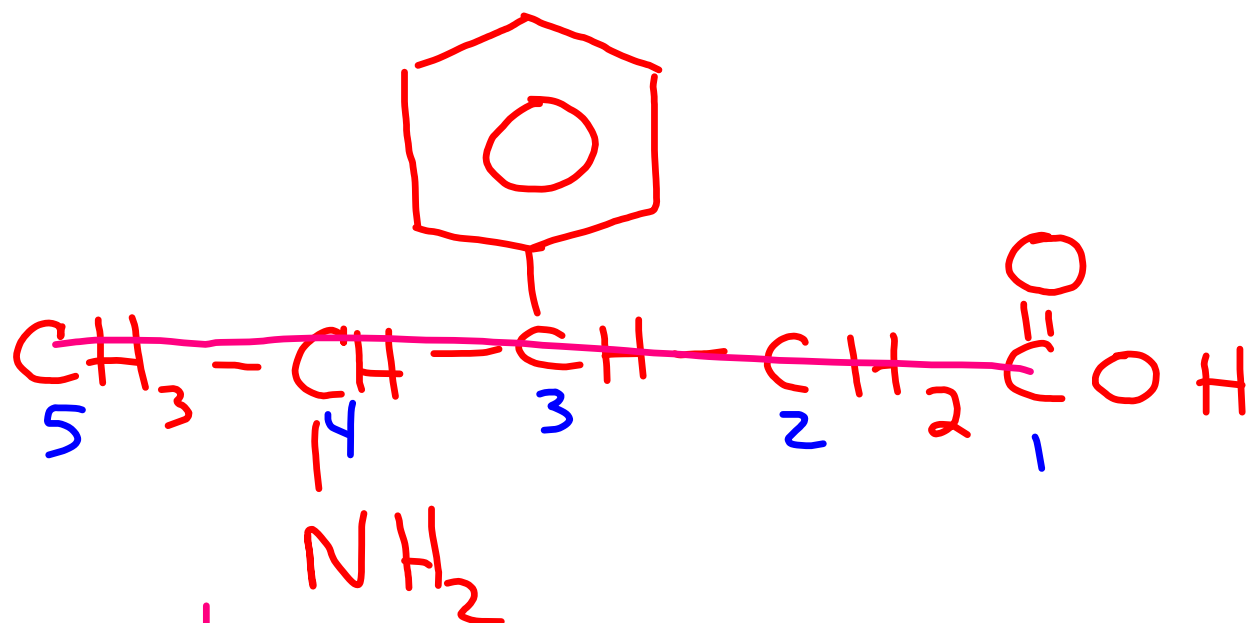
1-aminopropane

1-propanamine

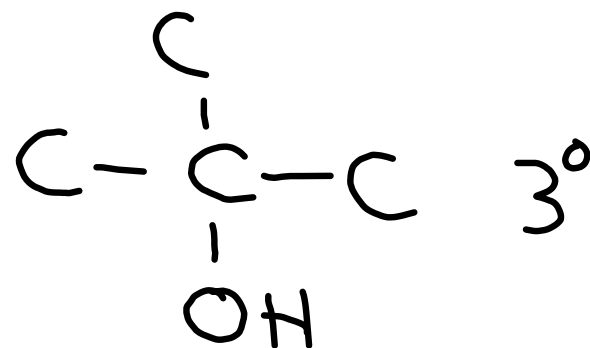
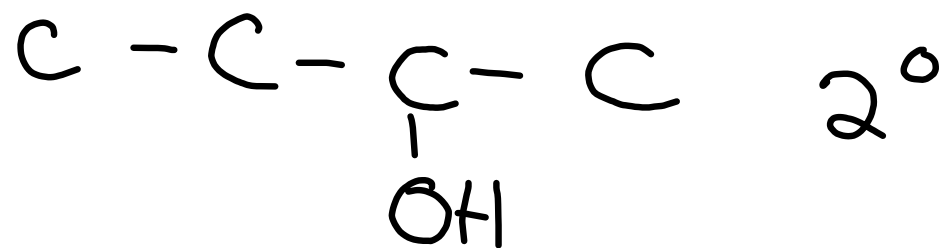


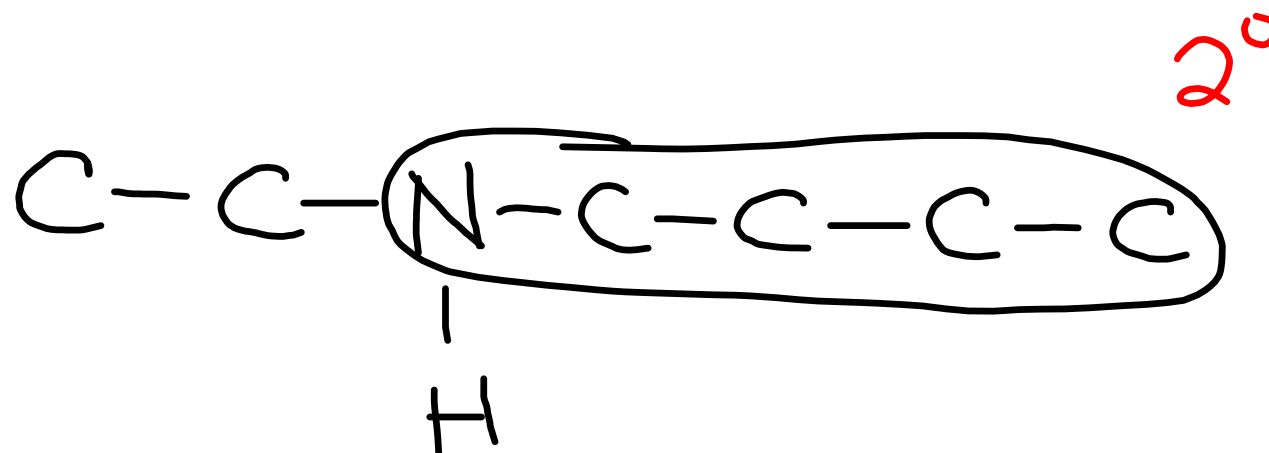
2-propanamine

2-aminopropane

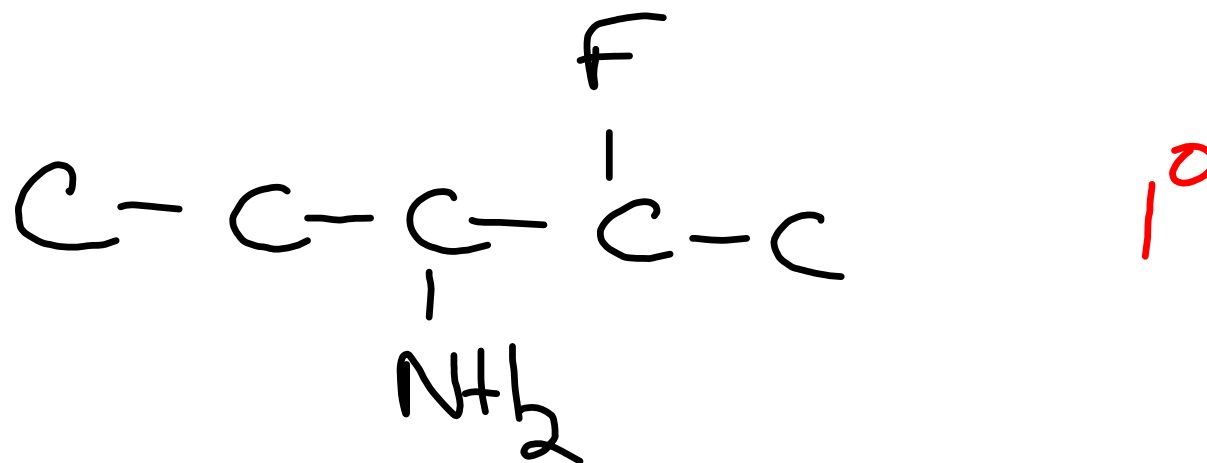


3-benzyl-4-amino pentanoic acid  
 3-phenyl-4-amino pentanoic acid





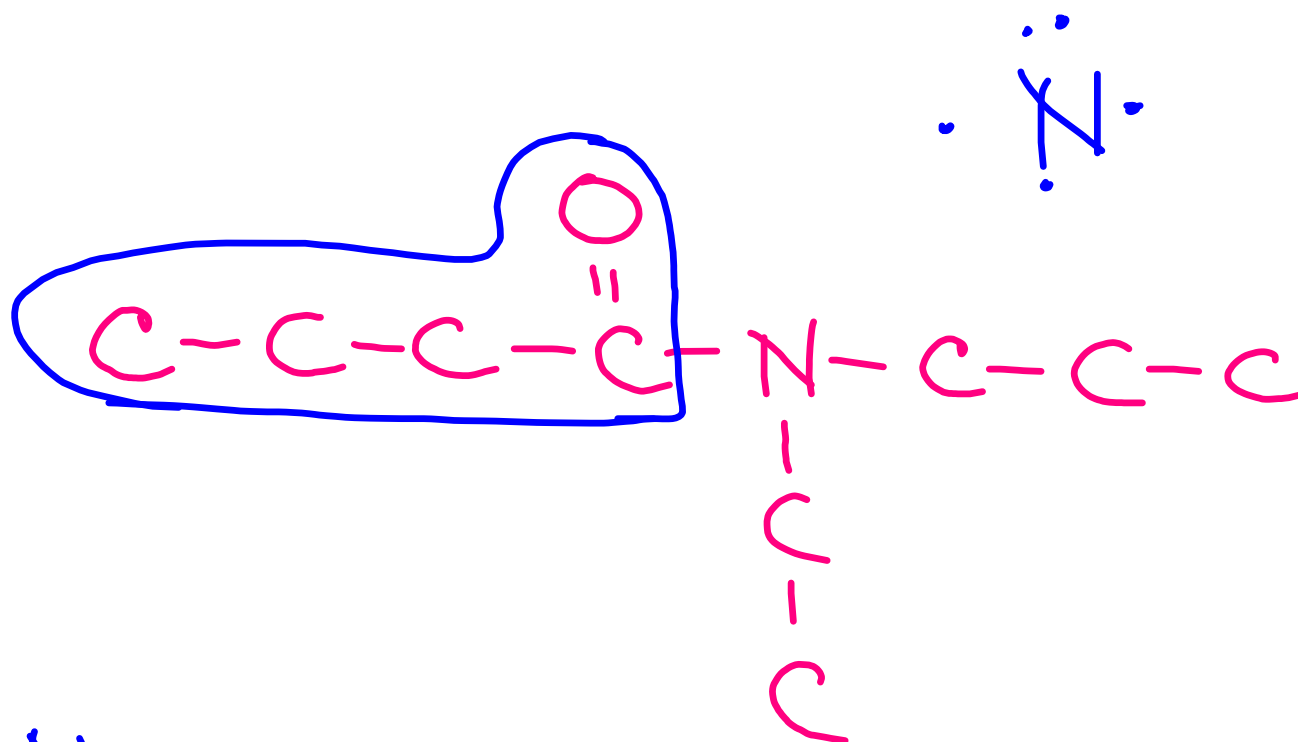
N-ethyl butanamine  
 ethyl butyl amine



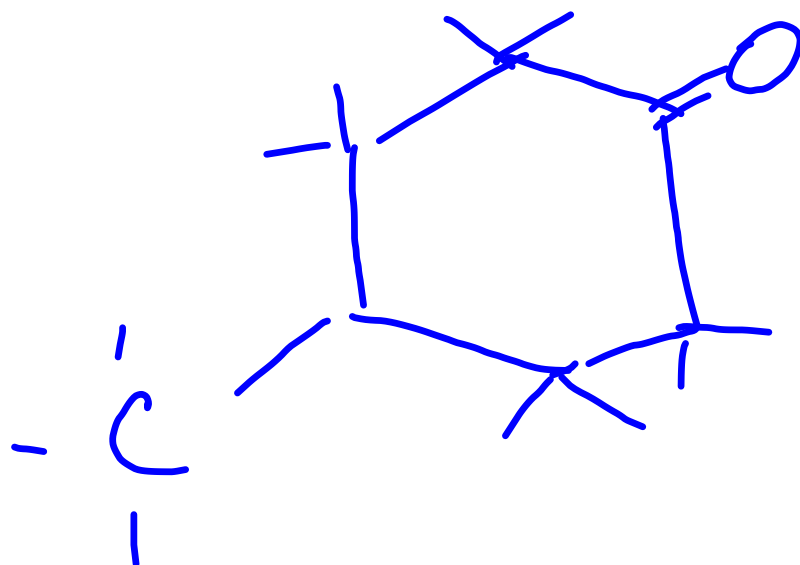
2-fluoro-3-pentanamine

2-fluoro-3-aminopentane





N-ethyl-N-propyl butanamide



6.

a.

pentanone propanal  
isopropanol

isopropanol, pentanone, propanal

f.

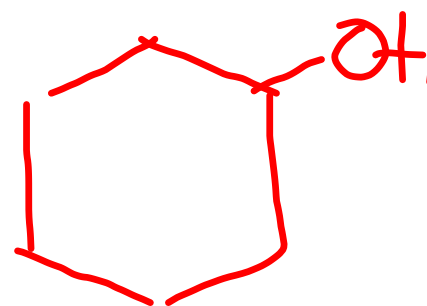
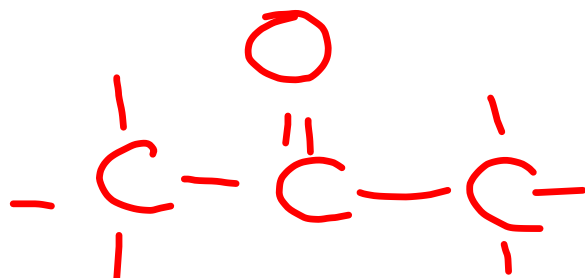
water ethanol ethanal

g.

water 3-hexene methane

h.

water acetone cyclohexanol



i

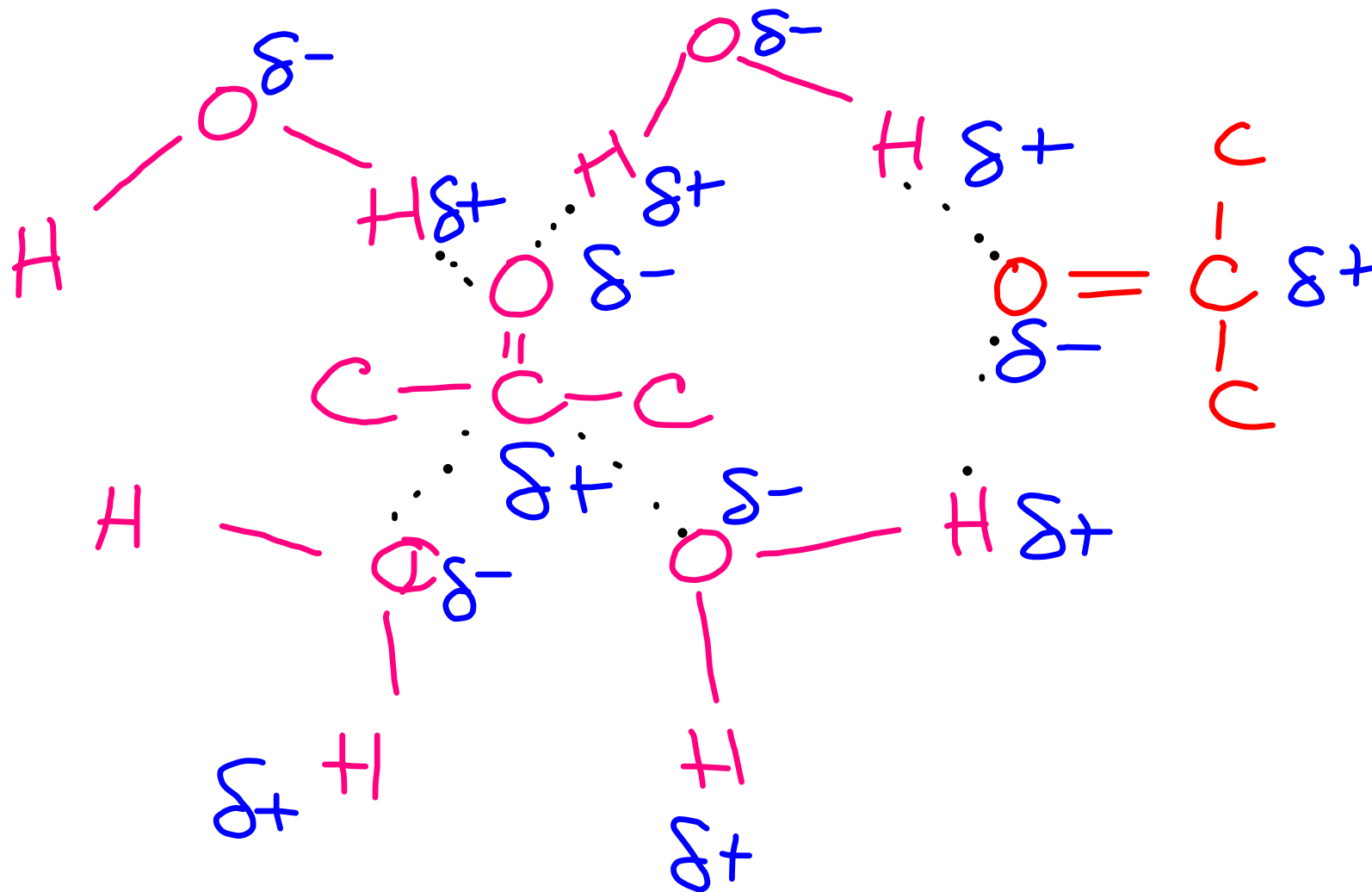
acetone 2-butyne 1-hexene

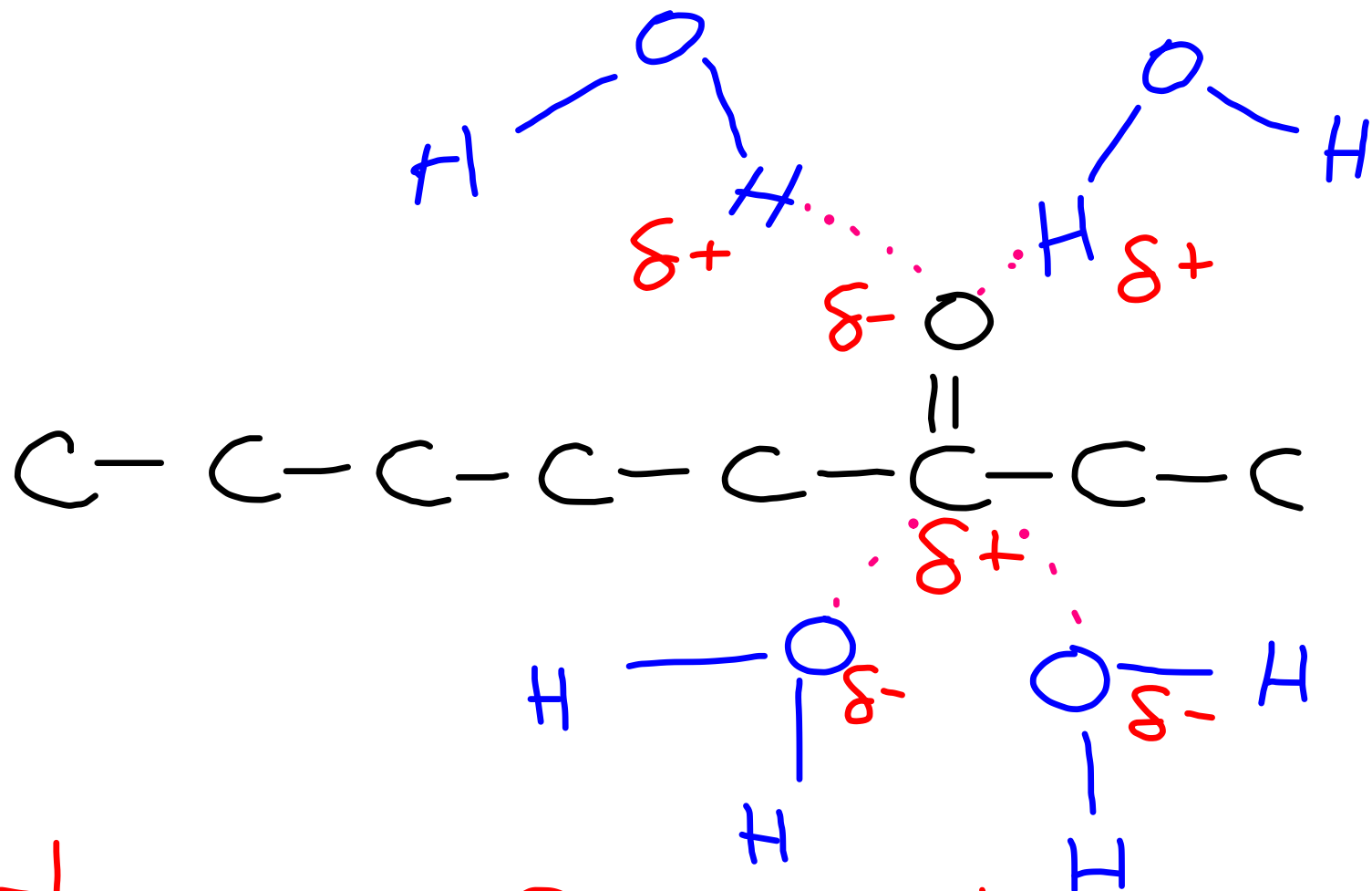
j

isopropanol formaldehyde 3-pentyne

# Solubility in $\text{H}_2\text{O}$

- 1.) hydrocarbon length determines solubility
- 2.) functional group

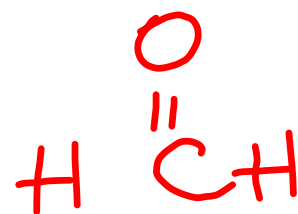




too many Cs not soluble  
like dissolves like

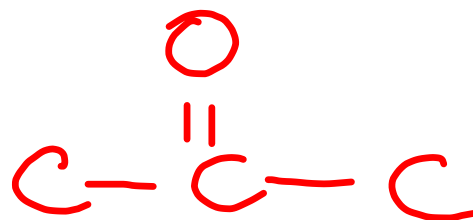
5.

a.



Y

b.

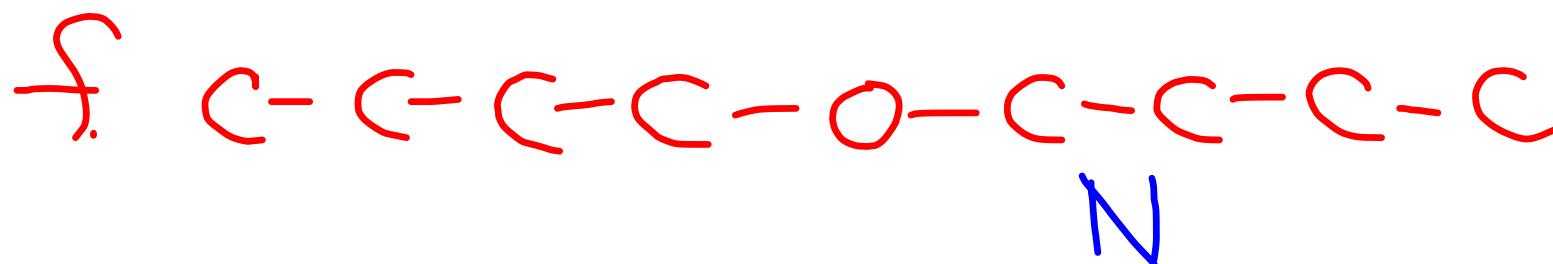
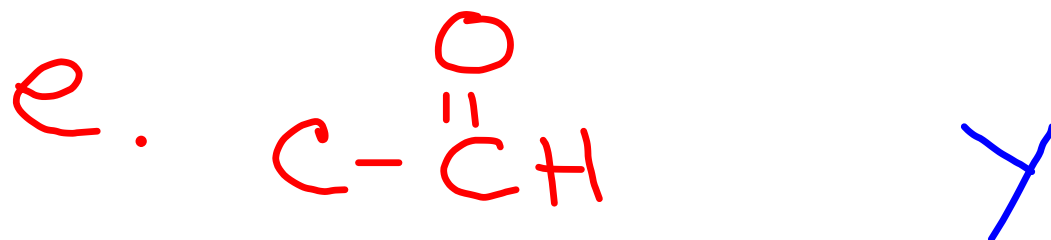
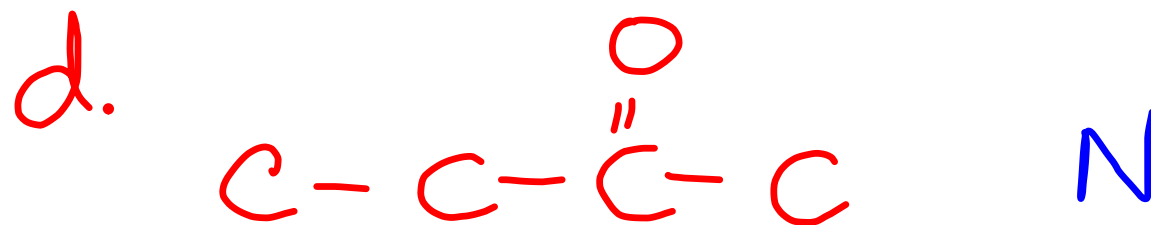


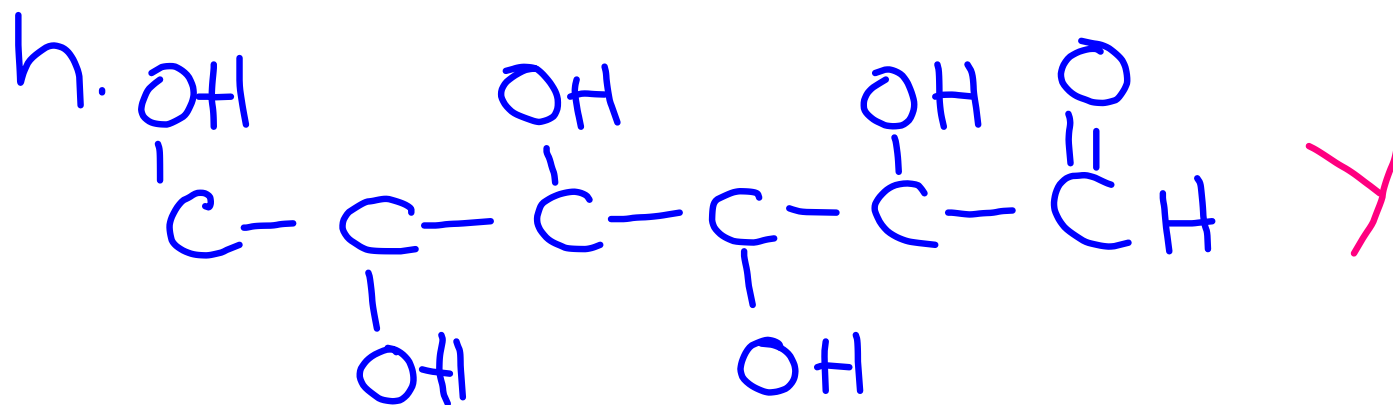
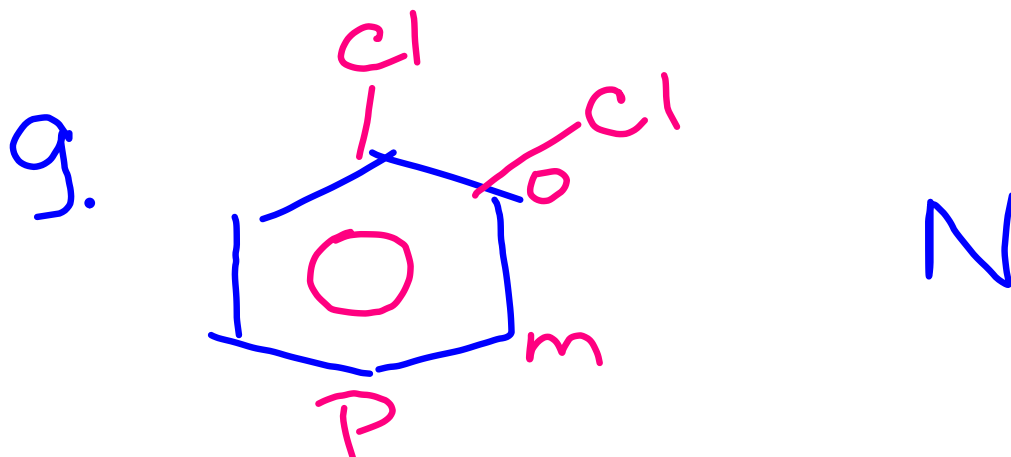
Y

c



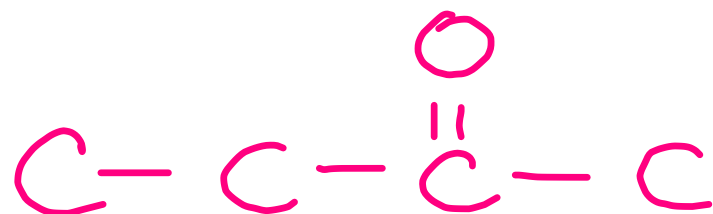
N





.

i



N

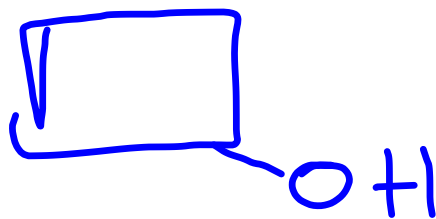
.

j



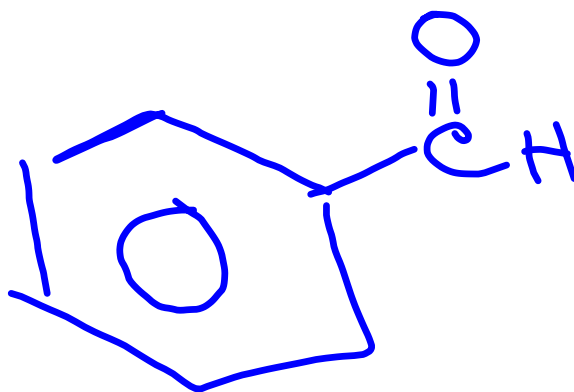
N

K.



Y

I.



N

m.



Y

n

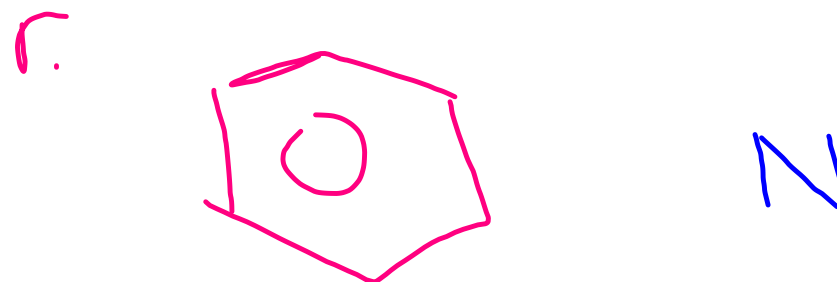
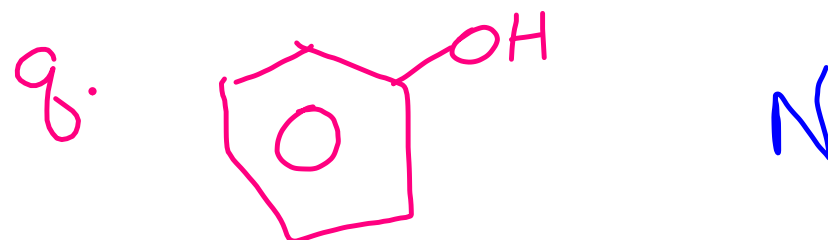
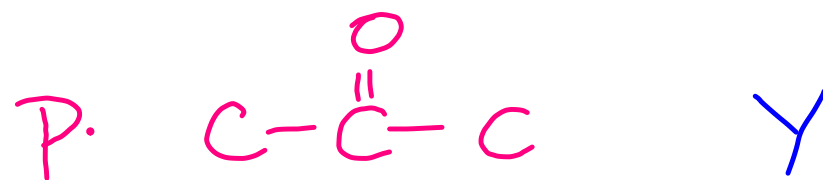


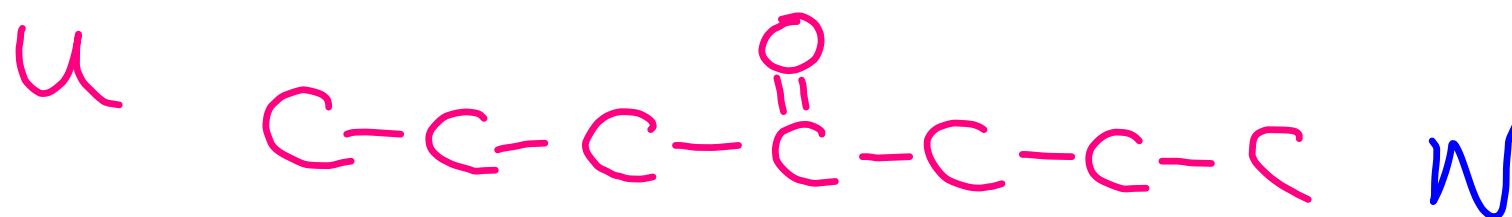
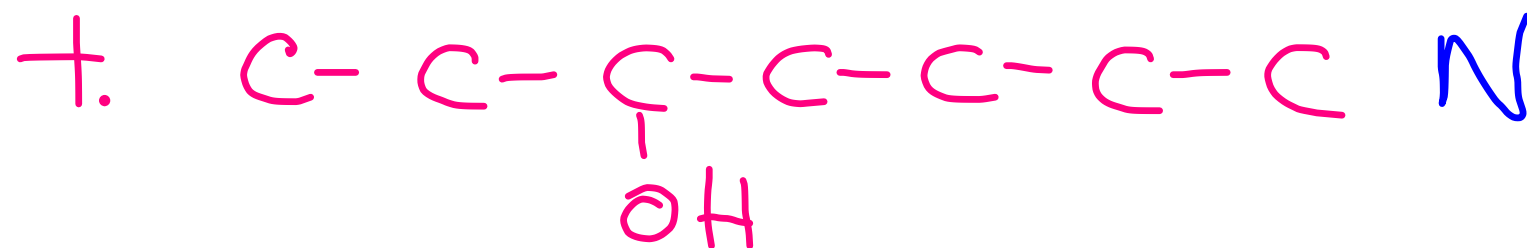
N

O.

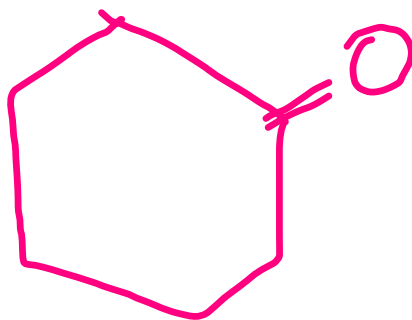


Y

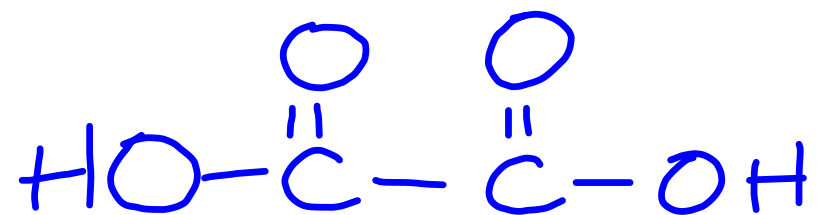




V.



N



7. a.) i, iv  
b.) ii, iii  
c.) ii  
d.) iii

e.) none  
f.) ii, iii  
double  
bonds  
g.) i, iv



h.)

i) none

l) all