

Key

Test Prep 4

- 1) Define the three types of magnetic properties.

Diamagnetic - all electrons paired

Paramagnetic - one or more unpaired electrons

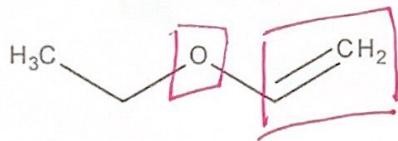
Ferromagnetism - unpaired electrons interact w/ neighboring atoms

- 2) What is the term that we use to refer to metallic bonding?

Electron sea

- 3) What functional groups are present in the following compounds (include any double or triple bonds)?

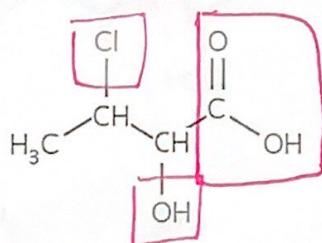
a)



Ether ($R-O-R$)

Alkene

b)

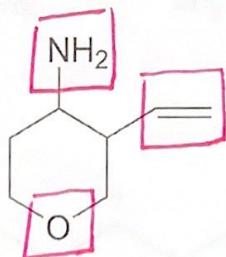


carboxylic acid

alcohol

haloalkane/alkyl halide

c)



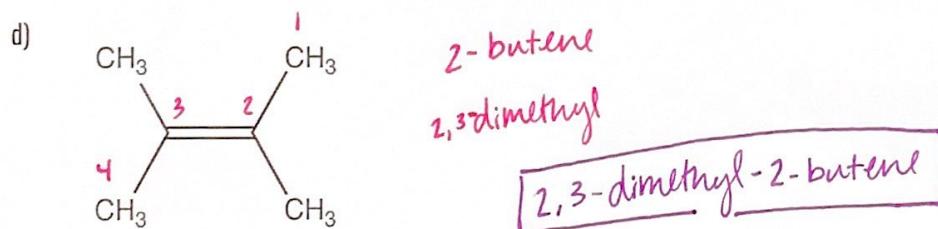
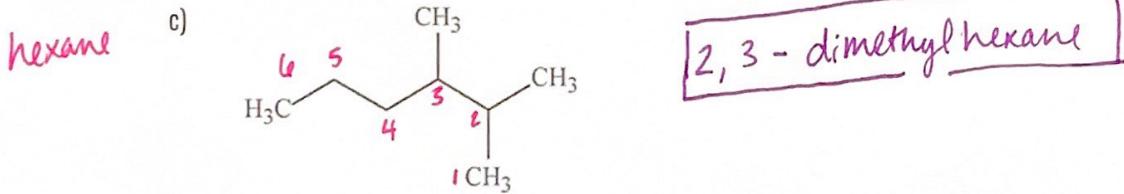
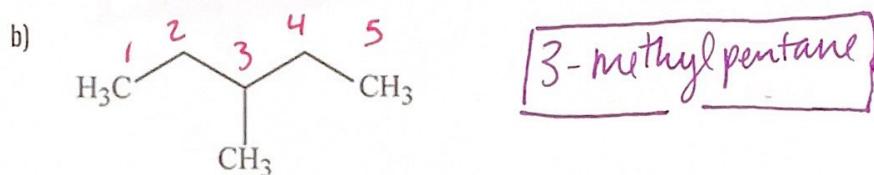
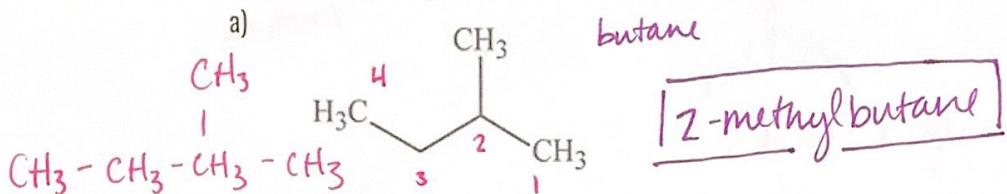
ether, amine, alkene



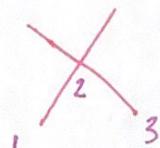
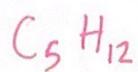
4) What is a coordination compound?

A central metal atom or ion surrounded by electron-donating ligands

5) Name the following compounds.



6) Draw and name 3 isomers of pentane.



2,2-dimethylpropane



2-methylbutane