

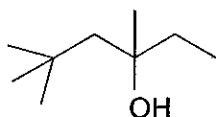
Worksheet 5

Hydroxy Compounds

Question 1.

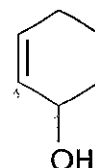
Give systematic names for the following compounds.

a.



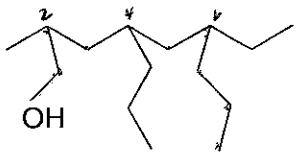
3,5-dimethyl-3-hexanol

b.



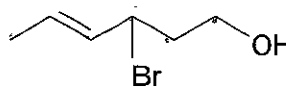
2-cyclohexenol

c.



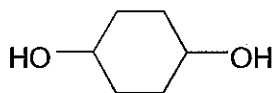
4,6-diethyl-2-methyl-1-nonane

d.



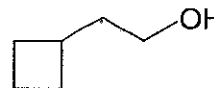
trans-3-bromo-4-hexen-1-ol

e.



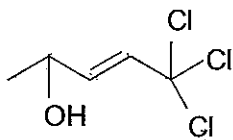
1,4-cyclohexane diol

f.



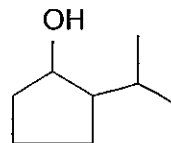
2-cyclobutyl-1-ethanol

h.



5,5,5-trichloro-3-penten-2-ol

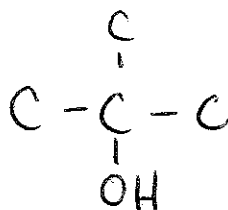
i.



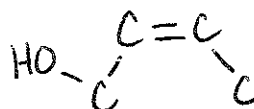
Question 2.

Draw structures corresponding to the following names.

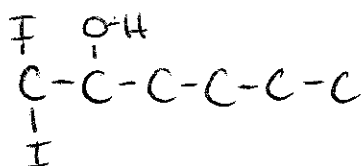
a. 2-methyl-2-propanol



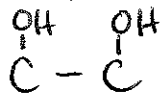
b. cis-but-2-en-1-ol



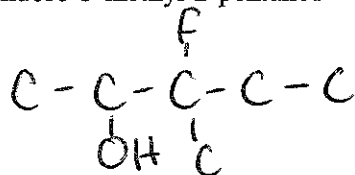
c. 1,1-diiodo-2-hexanol



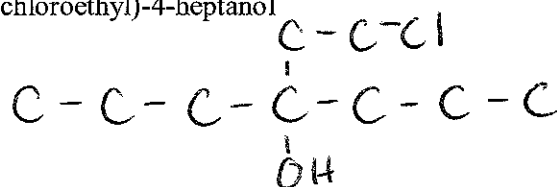
e. ethan-1,2-diol



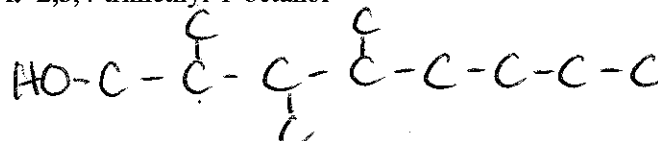
g. 3-fluoro-3-methyl-2-pentanol



d. 4-(2-chloroethyl)-4-heptanol



f. 2,3,4-trimethyl-1-octanol



h. 3-cyclohexylcyclopentanol



Question 3.

Classify the alkanols in question 1 as primary, secondary or tertiary.

a) tertiary

b) primary

c) secondary

d) tertiary

e) primary (both)

f) primary

g) secondary

h) secondary

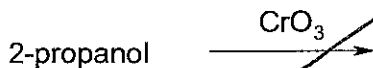
Question 4.

Give the structure of the major organic product of the following reactions

a.



b.



c.

