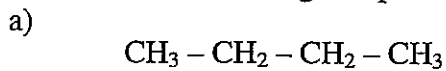


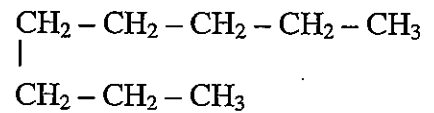
WS 1 - Alkanes

1. Name the following compounds:

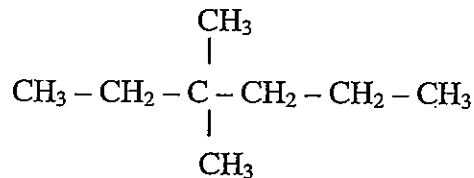


butane

b)

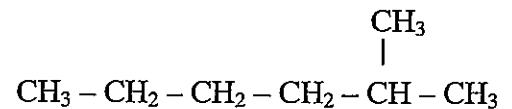


c)



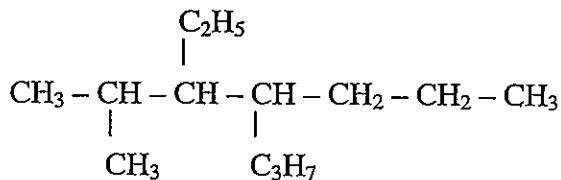
3,3-dimethylhexane

d)



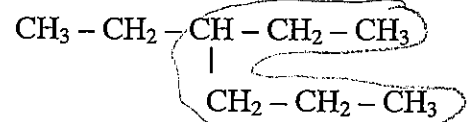
2-methylhexane

e)



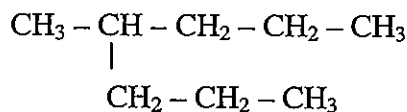
3-ethyl-2-methyl-4-propylheptane

f)



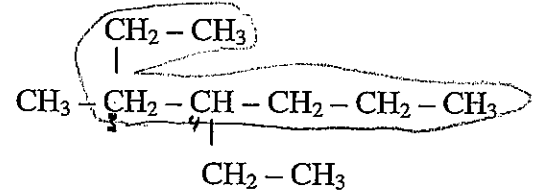
3-ethylhexane

g)



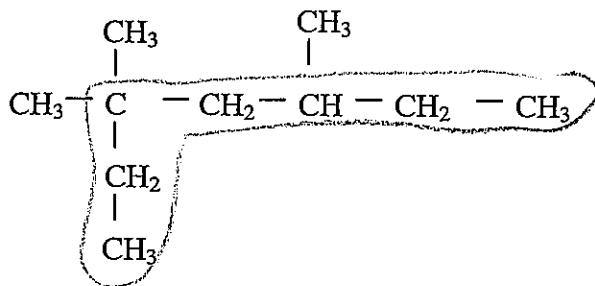
4-methylheptane

h)



4-ethyl-3-methylheptane

2. Why is the name 2-ethyl-2,4-dimethylhexane unsuitable for the following compound?
What is the correct name of the compound?

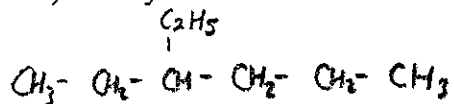


- longest chain is 7

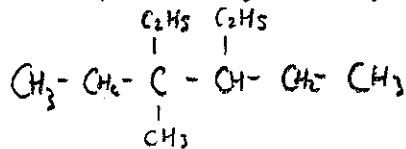
- 3,3,5-trimethylheptane

3. Draw each of the following compounds:

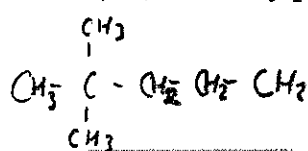
a) 3-ethylhexane



c) 3,4-diethyl-3-methylhexane



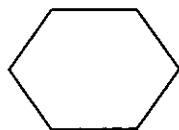
e) 2,2-dimethylpentane



Cycloalkanes

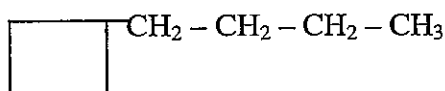
1. Name each of the following compounds:

a)



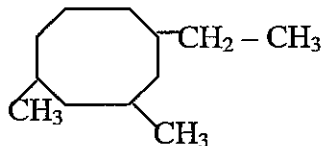
cyclohexane

c)



butylcyclobutane

e)



1-ethyl-3,5-dimethylcyclooctane

2. Draw each of the following compounds:

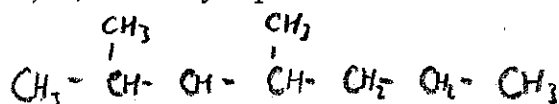
a) propylcyclopentane



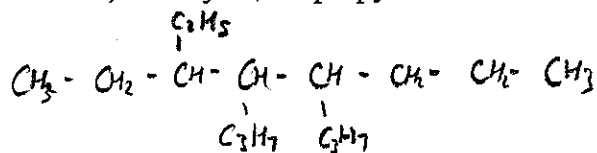
c) 1,1-diethylcyclobutane



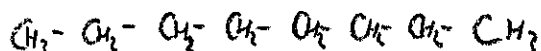
b) 2,4-dimethylheptane



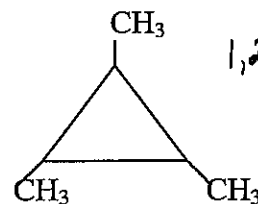
d) 3-ethyl-4,5-dipropyloctane



f) octane

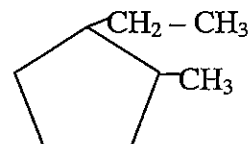


b)



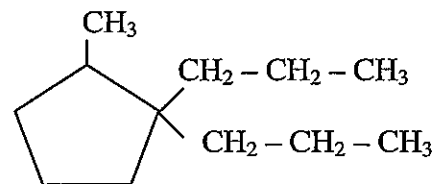
1,2,3-trimethylcyclopropane

d)



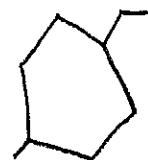
1-ethyl-2-methylcyclopentane

f)



2-methyl-1,1-dipropylcyclopentane

b) 1-ethyl-4-methylcyclohexane



d) 1,2-diethyl-3-propylcyclobutane

