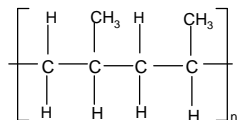


4.9 ANSWERS TO EXERCISES

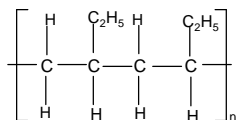
4.9 Exercise 1

1.

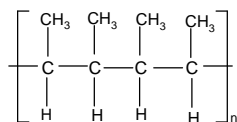
a)



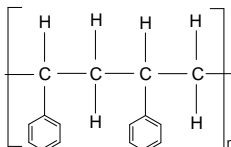
b)



c)



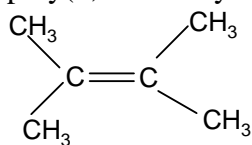
d)



2.

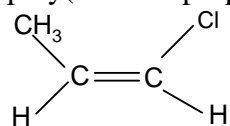
a)

poly(2,3-dimethylbut-2-ene)



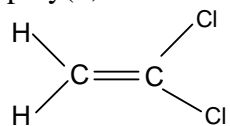
b)

poly(1-chloropropene)



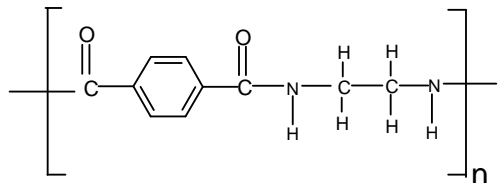
c)

poly(1,1-dichloroethene)

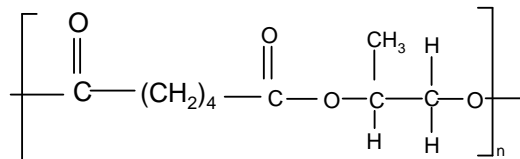


4.9 Exercise 2

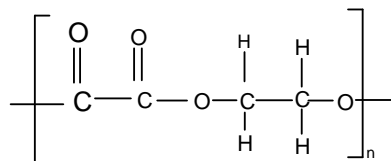
1. a)



b)



c)



2.
 - a) benzene-1,4-diacyl dichloride and ethan-1,2-diol
 - b) hexanediacyl dichloride and 1,6-diaminohexane
 - c) benzene-1,3-dicarboxylic acid and propan-1,2-diol
 - d) ethanediacyl dichloride and 1,2-diaminoethane
3.
 - a) Condensation polymers are biodegradable, but addition polymers are not.
 - b) Condensation polymers have a shorter lifetime than addition polymers, but can be much more easily recycled as they can be broken down into their monomers quite easily.