**2.1.3 Exercise 1 - ADDITION REACTIONS OF ALKENES**

1. What is meant by the term “addition reaction”?

2. Write equations, using structural or skeletal formulae, to show the following addition reactions (if two products are formed, write two equations). Name the organic product in each case.

1. ethene with hydrogen bromide
2. ethene with bromine
3. ethene with steam
4. ethene with hydrogen
5. propene with hydrogen bromide
6. propene with chlorine
7. propene with steam
8. propene with hydrogen
9. but-1-ene with hydrogen bromide
10. but-2-ene with iodine
11. methylpropene with steam
12. pent-1-ene with hydrogen
13. pent-2-ene with hydrogen bromide
14. 2-methylbut-1-ene with bromine
15. 3-methylbut-1-ene with steam
16. 2-methylbut-2-ene with hydrogen