Addition polymers

1 **a** What is meant by the term '**addition polymerisation**'?

……

……[1]

b How does addition polymerisation differ from other types of polymerisation?

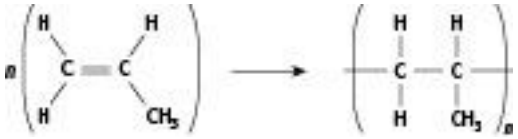
……

……[2]

c How does ethene react to form the polymer poly(ethene)? Give an equation using structural formulae.[3]

2 The following equations, **A**, **B** and **C**, show the formation of three different addition polymers.

A



B

C

a What does the letter '*n*' mean in the formula of the product?

.....[1]

b Complete the following table by filling in the names of the monomer and polymer in each case, and give **one** use of each of the polymers.

	Name of monomer	Name of polymer	Use of polymer
A			
B			
C			

[3]

3 Draw the structure of the repeating unit in the following polymers:

a) poly(propene) b) poly(chloroethene) (PVC)

[2]

4 a What common bonding feature must all monomers, whether substituted or not, contain?

.....[1]

b Draw the structure of the addition polymer made from styrene monomers (show at least three repeating units in your structure).

[2]

TOTAL:___/15