

**VCE Chemistry**  
Organic Chemistry  
**Polymerisation**

**Name:** \_\_\_\_\_  
**Date:** \_\_\_/\_\_\_/\_\_\_  
**Start:** \_\_\_ **Finish** \_\_\_  
**Mark:** \_\_\_\_\_

**Comment:**

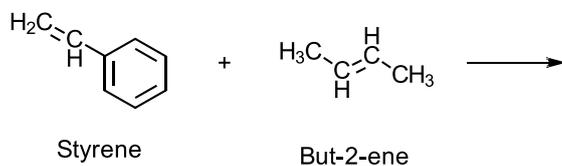
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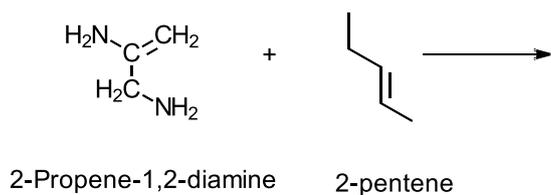
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1. For the following monomers, show a section of the polymer that you would expect. Ensure to name the type of polymerization reaction that takes place.

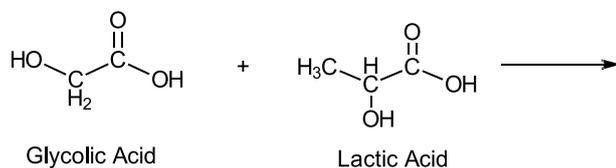
i.



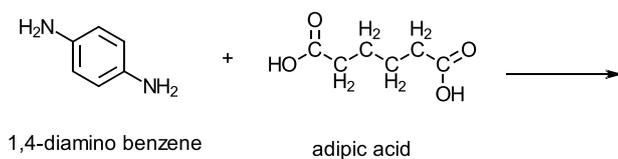
ii.



iii.

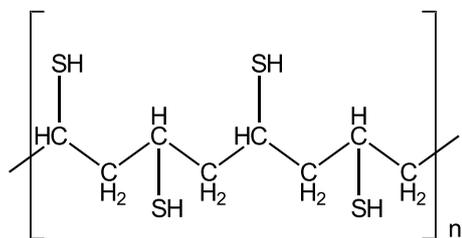


iv.



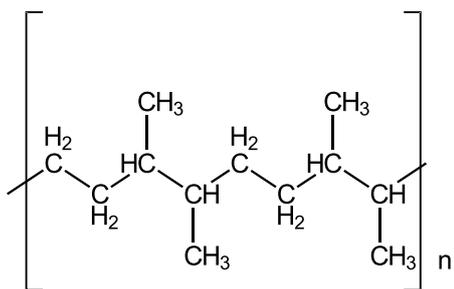
2. From the following section of polymers predict the original monomers.

i.



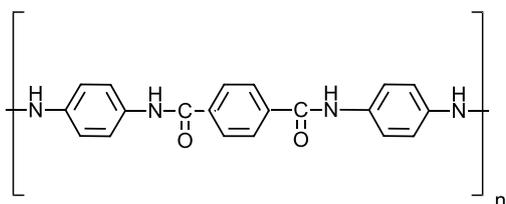
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ii.



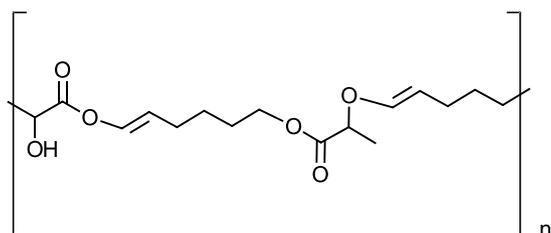
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iii.



\_\_\_\_\_

iv.



\_\_\_\_\_

4. From the polymers in question 3, identify the type of reaction necessary to form the polymer. Clearly show the reaction, and identify the important bonds within the polymer.

5. Describe the type of conditions that are needed for addition and condensation polymerisation.

6. Explain how a polymer of nylon can be broken down into individual monomers?

7. Show the polymerization of the following monomers. Explain which of the following reactions produce copolymers.

(i) 2,3 dimethyl butane and 1,5 dichloro-pent-2-ene

(ii) 4-hydroxyl butanoic acid