

14.8.2 Synthetic Polymers

Question Paper

Level	IGCSE
Subject	Chemistry (0620)
Exam Board	Cambridge International Examinations (CIE)
Topic	Organic Chemistry
Sub-Topic	14.8.2 Synthetic Polymers
Booklet	Question Paper

Time Allowed: 8 minutes

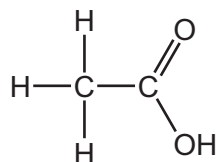
Score: /6

Percentage: /100

Grade Boundaries:

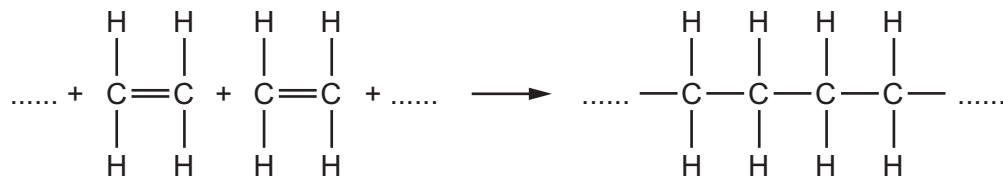
A*	A	B	C	D	E	U
>85%	75%	60%	45%	35%	25%	<25%

- 1 The diagram shows a molecule of an organic compound W.



Which statement is **not** correct?

- A** A solution of W in water has a pH greater than pH 7.
 - B** A solution of W in water reacts with sodium hydroxide solution.
 - C** When copper(II) carbonate is added to a solution of W in water, a gas is produced.
 - D** When magnesium is added to a solution of W in water, a gas is produced.
- 2 Ethene forms an addition polymer as shown.

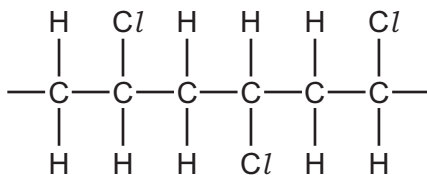


Which terms describe this polymer?

- A** a saturated compound called poly(ethane)
 - B** a saturated compound called poly(ethene)
 - C** an unsaturated compound called poly(ethane)
 - D** an unsaturated compound called poly(ethene)
- 3 Which row describes the formation of a polymer?

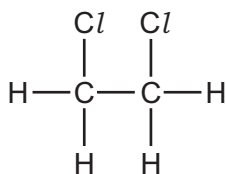
	monomer	polymer
A	ethane	poly(ethane)
B	ethane	poly(ethene)
C	ethene	poly(ethane)
D	ethene	poly(ethene)

- 4 The diagram shows three repeat units in the structure of an addition polymer.

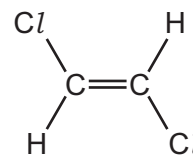
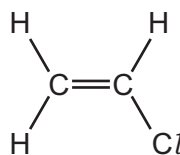
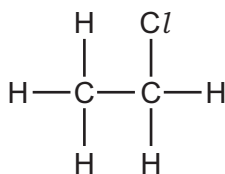


Which alkene monomer is used to make this polymer?

A



B



- 5 Which process does **not** produce carbon dioxide?

- A** combustion of methane
- B** fermentation of sugar
- C** polymerisation of ethene
- D** respiration

- 6 A macromolecule is a very large molecule.

Macromolecules can be made by joining smaller molecules together. This is called polymerisation.

Which row in the table describes the formation of a polymer?

	monomer	polymer
A	ethane	poly(ethane)
B	ethene	poly(ethene)
C	ethane	poly(ethene)
D	ethene	poly(ethane)