

AQA Biology

1.1 Define polymer.

[1]

1.2 Polymers are formed by condensation reactions.

What is the name of the other substance formed during condensation reactions?

Circle **one** answer.

[1]

A carbon dioxide

B hydrochloric acid

C oxygen

D water

1.3 Name the type of reaction that occurs when polymers are broken down into monomers.

[1]

2.1 Match these measurement terms to their definitions.

[2]

precise

result is close to true value

reproducible

value in a set of results is ruled out as erroneous

anomaly

measurements are close to a mean value

accurate

original experimenter gets the same results if they do it again

repeatable

another person gets the same results

2.2 Which type of error occurs due to unpredictable variation around the true value?

Circle **one** answer.

[1]

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- A** measurement error **B** random error
C systematic error **D** zero error

2.3 Which type of error occurs due to using a balance that reads 0.03 g when nothing is sitting on it?

Circle **one** answer. **[1]**

- A** measurement error **B** random error
C systematic error **D** zero error

3.1 Name the monomer that carbohydrates are made from.

Tick **one** box. **[1]**

- A** amino acid **B** fatty acid
C glycerol **D** monosaccharide

3.2 A student tested some substances for the presence of reducing sugar.
 The results are shown in the table.

Substance	colour at end of test
A	red
B	green
C	blue

Identify the substance that contains the most reducing sugar.

[1]

4.1 Name the type of bond formed between two monosaccharides during a condensation reaction.

[1]

4.2 Describe how to test for proteins including the positive result.

[2]

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5.1 Complete the table below.

[2]

prefix	index
micro	
	10^{-3}
centi	
	10^{-9}
kilo	

5.2 The mass of an object measured on a 4 decimal place balance is 7.0855 g

What is this mass to 3 significant figures?

[1]

A 7.09 g

B 7.19 g

C 7.085 g

D 7.086 g

6.1 Describe how an enzyme affects a reaction.

[1]

6.2 Give three factors that can affect the rate of an enzyme catalysed reaction.

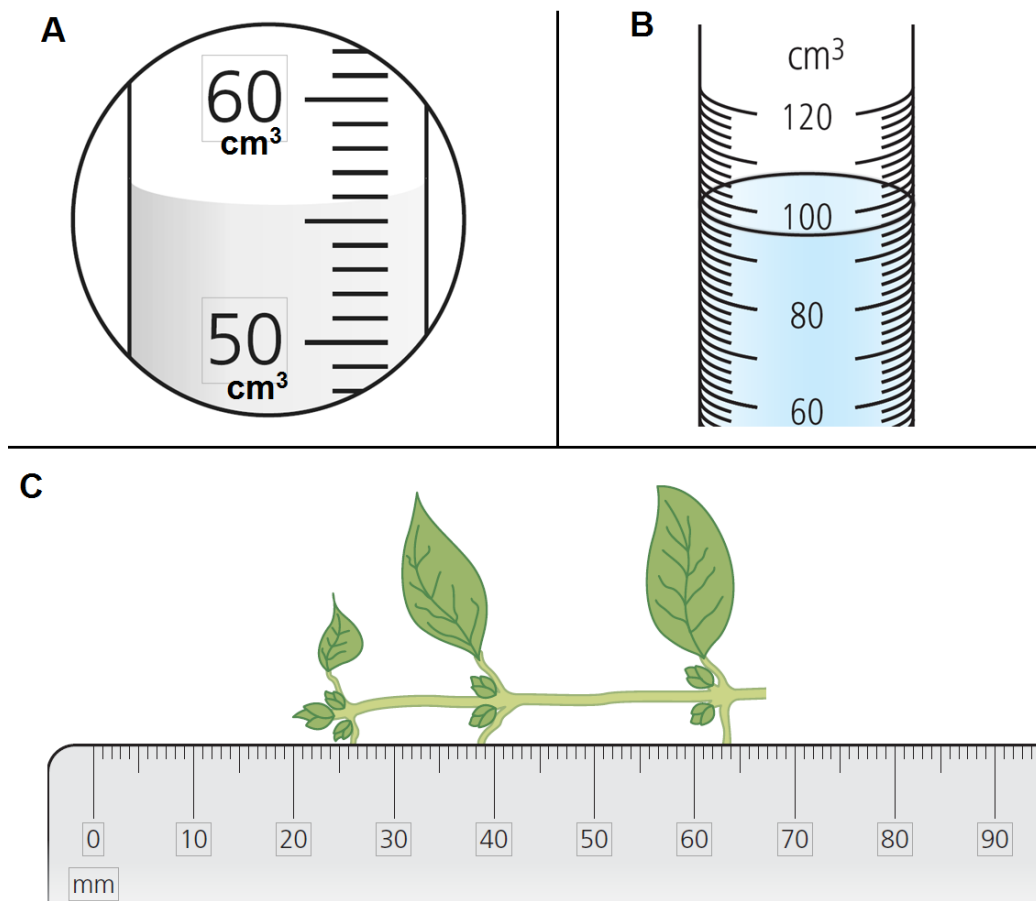
[3]

6.4 Compare how competitive and non-competitive inhibitors affect enzymes.

[2]

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7.1 For the following images give the measurements and measurement uncertainties. **[6]**



A _____ cm^3
B _____ cm^3
C _____ mm

7.2 For each of the examples (A–C) above, calculate the relative error. **[3]**

A _____ cm^3
B _____ cm^3
C _____ mm

Total = 30 marks