

**AS Level Chemistry B**  
**H033/01** Foundations of chemistry

**Question Set 15**

Multiple Choice Questions

1 What is a correct measure of percentage atom economy?

A mass of useful products  $\times$  100/mass of reactants

B amount of products  $\times$  100/amount of reactants

C  $M_r$  of products  $\times$  100/ $M_r$  of reactants

D  $M_r$  of useful products  $\times$  100/ $M_r$  of reactants

Your answer

[1]

2 A company makes a cleaning product and is looking for a 'greener' method of making the product.

Which one of the following would the company consider?

A Finding a reaction with a higher percentage yield.

B Finding a reaction with a higher atom economy.

C Using more organic solvents.

D Using inorganic catalysts rather than enzymes.

Your answer

[1]

3 A sample of gas, volume  $V$ , has its temperature raised from  $0^\circ\text{C}$  to  $20^\circ\text{C}$ . The pressure remains constant.

What is the new volume?

A  $0.005V$

B  $0.93V$

C  $1.07V$

D  $20V$

Your answer

[1]

**4** A student says that bio-ethanol is carbon neutral.

Which option provides evidence that disagrees with the student's statement about bio-ethanol?

- A** It gives off carbon dioxide when it burns.
- B** It is made from crops that absorb carbon dioxide.
- C** Energy from conventional power-stations is used to make it.
- D** Valuable land is used up growing the crops used to make bio-ethanol.

Your answer

**[1]**

**5** Which statement about ozone is correct?

- A** Ozone is a polluting gas in the stratosphere.
- B** Ozone acts as a sunscreen in the stratosphere.
- C** There is no ozone in the troposphere.
- D** Ozone is an isomer of oxygen.

Your answer

**[1]**

**Total Marks for Question Set 15: 5**

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