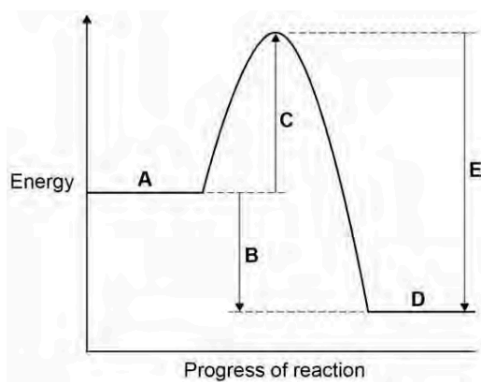


(Reaction profiles)

Q1.a)(2018)

Figure 10 shows the reaction profile for the reaction between zinc and copper sulfate solution.

Figure 10

Which letter represents the products of the reaction?

[1 mark]

Tick **one** box.

A		B		C		D		E	
----------	--	----------	--	----------	--	----------	--	----------	--

Q1.b)(2018)

Which letter represents the activation energy?

[1 mark]

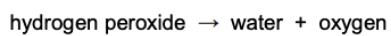
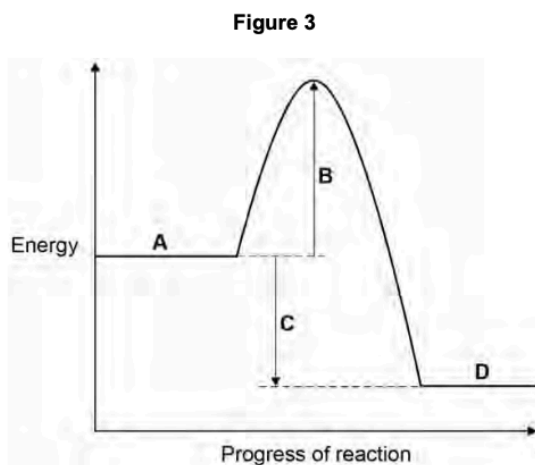
Tick **one** box.

A		B		C		D		E	
----------	--	----------	--	----------	--	----------	--	----------	--

Q2.a) (2019)

Figure 3 shows the reaction profile for the decomposition of hydrogen peroxide.

The word equation for this reaction is:



Labels **A**, **B**, **C** and **D** each represent a different part of the reaction profile.

Use **Figure 3** to answer Questions **02.4** and **02.5**

Which label shows the activation energy?

[1 mark]

Tick (✓) **one** box.

A	☐	B	☐	C	☐	D	☐
----------	--------------------------	----------	--------------------------	----------	--------------------------	----------	--------------------------

Q2.b) (2019)

Which label shows the energy of hydrogen peroxide?

[1 mark]

Tick (✓) **one** box.

A	☐	B	☐	C	☐	D	☐
----------	--------------------------	----------	--------------------------	----------	--------------------------	----------	--------------------------

Q2.c) (2019)

The decomposition of hydrogen peroxide gives out energy to the surroundings.

What type of reaction is this?

[1 mark]

Tick (✓) **one** box.

Displacement

☐

Endothermic

☐

Exothermic

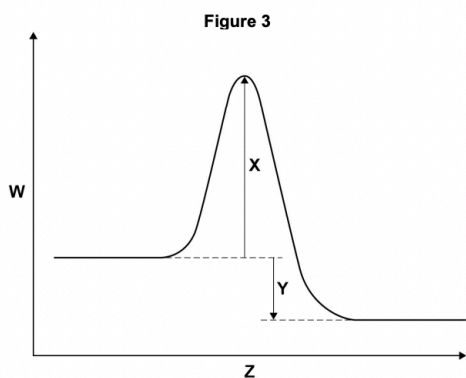
☐

Neutralisation

☐

Q3.(2020)

Figure 3 shows a reaction profile for the reaction between hydrogen and oxygen.



What do the labels **W**, **X**, **Y** and **Z** represent?

Choose answers from the box.

[4 marks]

activation energy	energy	overall energy change
products	progress of reaction	reactants

W _____

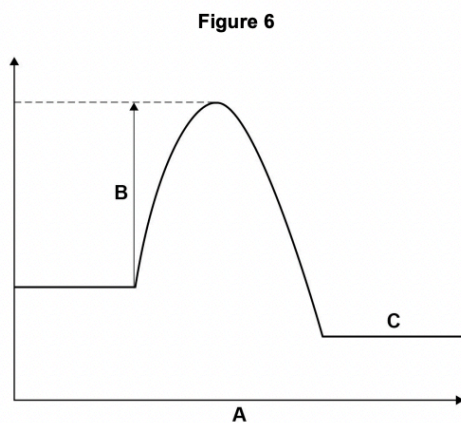
X _____

Y _____

Z _____

Q4. (2021)

Figure 6 shows a reaction profile for the reaction of magnesium with hydrochloric acid.



What do labels **A**, **B** and **C** represent on **Figure 6**?

Choose answers from the box.

[3 marks]

activation energy	energy	overall energy change
products	progress of reaction	reactants

A _____

B _____

C _____