

Paper Reference(s) 1SC0/2CH
Pearson Edexcel Level 1/Level 2 GCSE (9–1)

Combined Science
Paper 5
Higher Tier

Wednesday 10 June 2020 – Morning

Diagram Book

Time: 1 hour 10 minutes plus your additional time allowance
In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

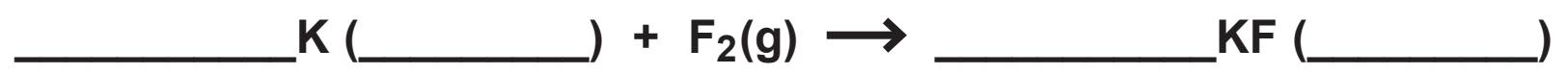
**THIS DIAGRAM BOOK *MUST* BE RETURNED WITH THE
QUESTION PAPER AT THE END OF THE EXAMINATION.**

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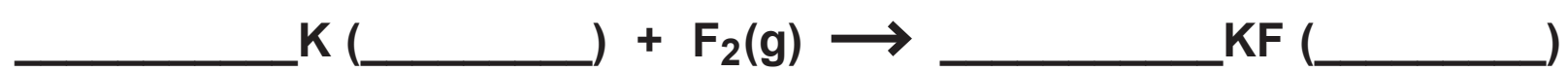
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Question 1(d)



Question 1(d) (Spare copy)



Question 2

Figure 1

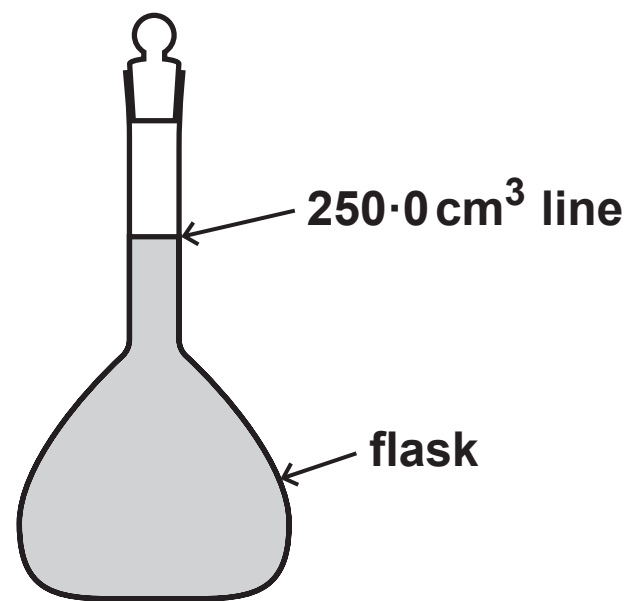
size of calcium carbonate pieces used	volume of carbon dioxide gas produced in five minutes in cm ³
large	16
small	48
powder	90

Question 4(b)(i)**Figure 2**

mass of stopper and flask in g	78·639
mass of stopper and flask full of argon in g	79·120
volume of flask in cm³	250·0

Question 4(b)(ii)

Figure 3



Question 4(d)



Question 4(d) (Spare copy)



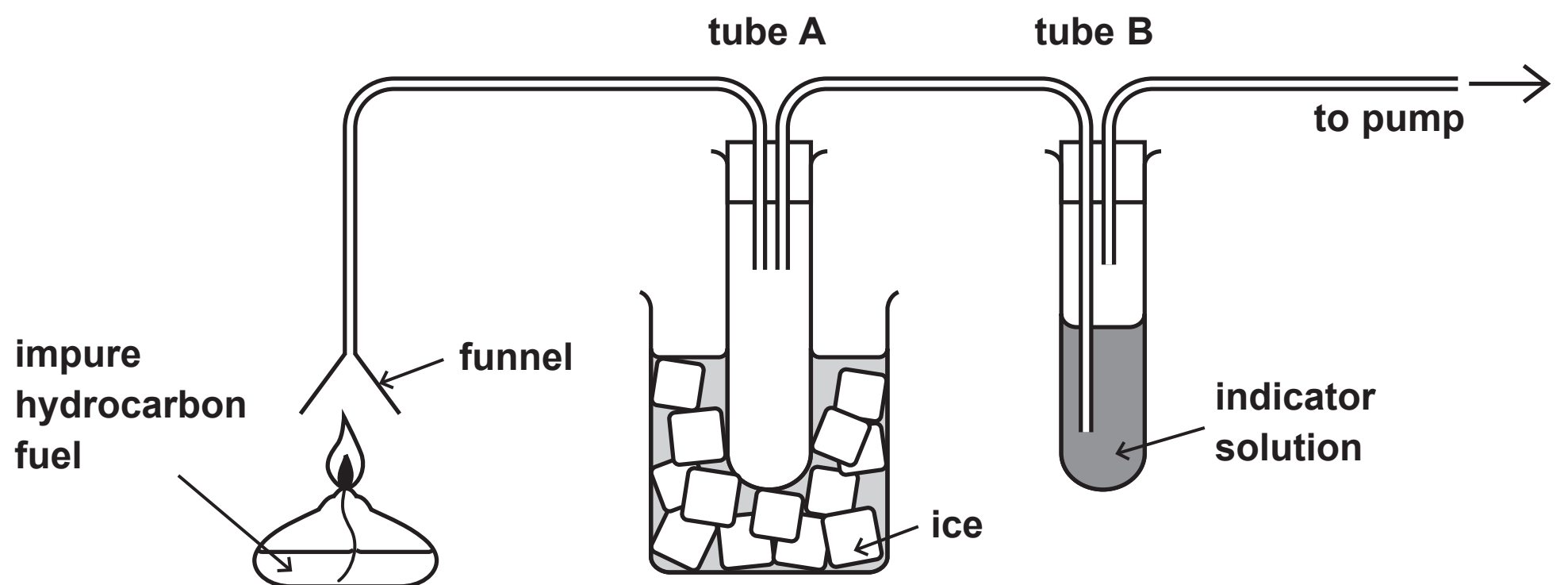
Question 4(e)

Figure 4

test	result with gas mixture P	result with gas mixture Q
bubble gas into limewater	white precipitate forms after 4 minutes	white precipitate forms after 10 seconds
place burning splint into gas mixture	splint continues to burn	splint immediately goes out

Question 6(a)

Figure 5



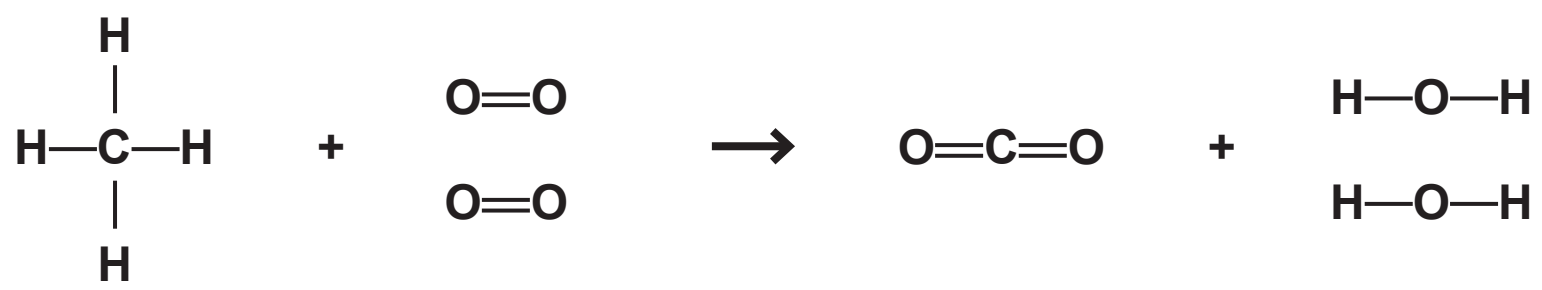
Question 6(b)

Figure 6

bond	bond energy in kJ mol^{-1}
C—H	435
O=O	496
C=O	805
H—O	463

Question 6(b)

Figure 7



Question 6(c)

Figure 8

	emissions in g km ⁻¹			
	carbon monoxide	nitrogen oxides	carbon dioxide	carbon particulates
car with no catalytic converter using petrol	1·60	0·09	180	0·00
car with catalytic converter using petrol	0·67	0·02	180	0·00
car using diesel	0·05	0·19	130	0·02