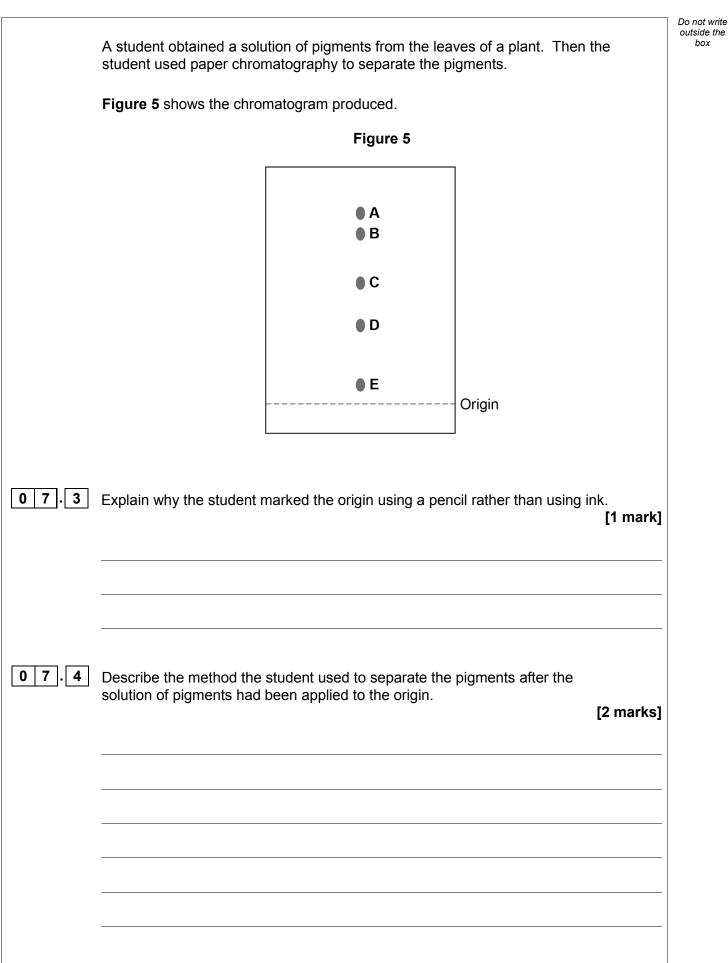
0 7.1	In photosynthesis, which chemicals are needed for the light-dependent reaction? Tick $(\checkmark)$ one box.	o not write utside the box
	[1 mark]	
	Reduced NADP, ADP, Pi, water and oxygen.	
	NADP, ATP and water.	
	Reduced NADP, ATP, water and carbon dioxide.	
	NADP, ADP, Pi and water.	
0 7.2	Describe what happens during photoionisation in the light-dependent reaction. [2 marks]	
	Question 7 continues on the next page	







07.5	Calculating the R <sub>f</sub> values of the pigments can help to identify each pigment. An R <sub>f</sub> value compares the distance the pigment has moved from the origin with the distance the solvent front has moved from the origin. $R_{f} = \frac{\text{distance pigment has moved from the origin}}{\text{distance solvent front has moved from the origin}}$ The distance each pigment has moved is measured from the middle of each spot.	Do not write outside the box
	Pigment <b>A</b> has an $R_f$ value of 0.95	
	Use <b>Figure 5</b> to calculate the R <sub>f</sub> value of pigment <b>C</b> . [1 mark]	
	R <sub>f</sub> value of pigment <b>C</b> =	
0 7 . 6	The pigments in leaves are different colours. Suggest and explain the advantage of having different coloured pigments in leaves. [1 mark]	
	Turn over for the next question	8



IB/M/Jun19/7402/2