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Total Marks: 100/105

The total mark for this paper was 105 with 9 questions. Please add to it as much you can. The above is the archive, however this document can still be edited for debate/additional information. Please keep in mind this is a student made mark scheme, and these answers may not all be what is on the official mark scheme.

Topic for Paper 3: DNA, Chromatography, aspirin production

Question	Answer	Additional Information/Debate	Marks
1 why use a conical flask instead of a beaker?	I put it has a smaller opening than a beaker so less gas lost?? You want to lose gas? - I am pretty sure this is the right answer, well it decreases the rate of gas no loss so easier to measure the rate. It doesn't reduce the rate of gas loss as this only depends on the concentration of reactants No splashing This was jokes Reactants don't stick to the side what??????? they would stick a little regardless	what was the cotton wool in that diagram for lolz it threw me off I put that the liquid would be shallower with larger surface area so gas produced could escape quicker I put larger surface area for to heat mixture more evenly? I said this too You dont want to have a large opening bc the acid may be lost due to the bubbles forming. Anything about swirling? I wrote swirling	1
rate at 2 minutes.	0.5 g min⁻¹? This is correct. A range of values typically accepted. I got 0.4 so yeah they'll accept a range AS LONG as they can see how you worked it out. G min⁻¹ ? Yeah but if u changed to seconds it wouldn't really matter as long as u put g per second Mol Dm⁻³s⁻¹ +	I got 0.02, you had to convert to mols - you didn't have to, any appropriate units would be fine I got like 0.0175 gs⁻¹ - Same here - yeah just rounded Gmin⁻¹ no? Is it not gmin⁻¹ the graph was in minutes I converted the minutes to seconds and put my units with seconds as well, any idea if thats okay? Yes	3

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