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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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Xiang Xie



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Unofficial Mark Scheme Biology F21may 2013: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. Unofficial Mark Scheme Biology F21may 2013 : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Unofficial Mark Scheme Biology F21may 2013 : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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