

/ denotes alternative points
 ; denotes separate points
comments on mark values are given in bold
comments on marking points are given in italics

AVAILABLE
MARKS

Section A

1 (a) Vectors/by description; [1]

(b) Any **two** from:

- use of bacterial strains ill-adapted to human physiology
- strains with 'suicide genes'
- containment mechanisms, e.g. 'negative-pressure' atmospheric

- *use of animal models*
- *use of safety protocols, e.g. containment within lab, wearing*
- *protective clothing*
- *other appropriate measures*

- (c) *Describe some potential problems with containment through engineering*
potential risks associated with containment, e.g. fire in ventilation
breakdown of containment through maintenance issues

2 (a)

	Protein	Enzyme activity	Proteinase	Caseinase	Caseinase activity	Proteinase activity
Proteinase	/	/	/	/	/	/
Caseinase	/	/	/	/	/	/
Proteinase	/	/	/	/	/	/

(b) (i) *Marking point*

- (ii) (a) *Proteinase is soluble in water and water-soluble*
- (b) *In solution with casein, proteinase is soluble in water and water-soluble*
- (c) *In solution with casein, proteinase is soluble in water*

Jan 13 Biol 4 Mark Scheme

Rosina Ehmann

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name bar.

Jan 13 Biol 4 Mark Scheme:

Jan 13 Biol 4 Mark Scheme: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Let's delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year.

Jan 13 Biol 4 Mark Scheme : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

Jan 13 Biol 4 Mark Scheme : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating 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.

Jan 13 Biol 4 Mark Scheme : Delia Owens' "Where the Crawdads Sing" This captivating 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 bestselling 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 Pappen, 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 a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://staging.conocer.cide.edu/book/scholarship/Documents/Le%20Choix%20Dune%20Vie.pdf>

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