

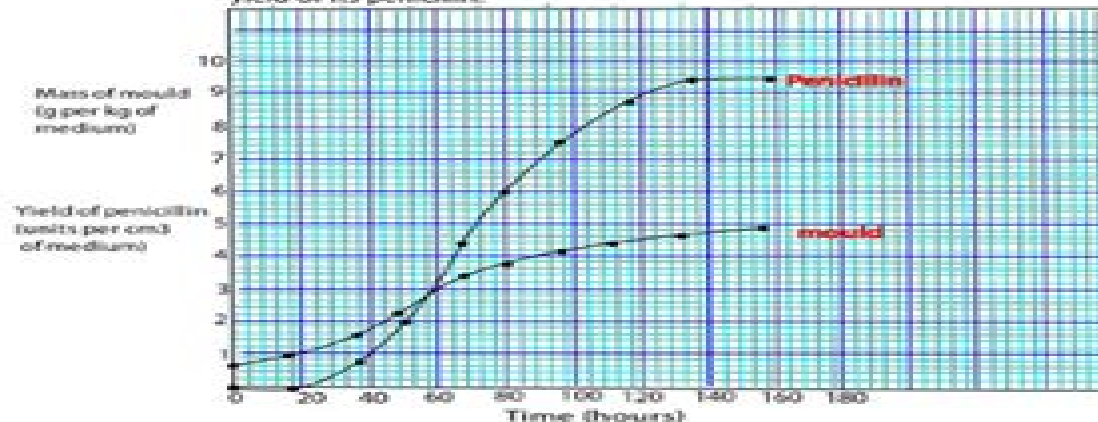
A-level

UACE Biology 2001 paper 2

1. Growth of two micro-organism in a culture media and yield of their products was analyzed. The table below shows the growth of the yeast *saccharomyces* and the yield of its product ethanol.

Time (hours)	Mass of yeast (g per dm <sup>3</sup> of medium)	Yield of ethanol (g per 100cm <sup>3</sup> of medium)
0	1	0.2
2	1.4	0.4
4	2.4	0.6
6	4.2	1.3
8	5.9	2.5
10	6.2	2.8
12	6.1	2.6
14	5.8	2.2

Graph 1 show the growth of the ascomycete mould *Penicillium* and the yield of its penicillin.



Use the data to answer the questions that follow.

- Represent the information in the table graphically (06marks)  
Use your graph and graph 1, to answer questions (b) – (f)
- Describe the pattern of growth of the mould and yeast (06marks)
- Give two differences in the growth pattern of mould and yeast (4marks)
- Explain what is happening in the growth of yeast population during each of the following period
  - 0 – 2 hours
  - 4 – 6 hours
  - 8 – 10 hours
  - 12 – 14 hours
- Describe the relationship between the
  - Growth of the mould and the yield of penicillin
  - Growth of yeast and production of ethanol
- State three ways in which the pattern of accumulation of penicillin graph 1 differs from the pattern of

# Higher Biology 2001 Marking Scheme

**Puja Mehta**



## **Higher Biology 2001 Marking Scheme:**

The Top Books of the Year Higher Biology 2001 Marking Scheme The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : 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 expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "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. Reids compelling 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 popular 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 a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## **Table of Contents Higher Biology 2001 Marking Scheme**

1. Understanding the eBook Higher Biology 2001 Marking Scheme
  - The Rise of Digital Reading Higher Biology 2001 Marking Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying Higher Biology 2001 Marking Scheme
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Higher Biology 2001 Marking Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from Higher Biology 2001 Marking Scheme
  - Personalized Recommendations
  - Higher Biology 2001 Marking Scheme User Reviews and Ratings
  - Higher Biology 2001 Marking Scheme and Bestseller Lists
5. Accessing Higher Biology 2001 Marking Scheme Free and Paid eBooks
  - Higher Biology 2001 Marking Scheme Public Domain eBooks
  - Higher Biology 2001 Marking Scheme eBook Subscription Services
  - Higher Biology 2001 Marking Scheme Budget-Friendly Options
6. Navigating Higher Biology 2001 Marking Scheme eBook Formats
  - ePub, PDF, MOBI, and More
  - Higher Biology 2001 Marking Scheme Compatibility with Devices
  - Higher Biology 2001 Marking Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Higher Biology 2001 Marking Scheme
  - Highlighting and Note-Taking Higher Biology 2001 Marking Scheme
  - Interactive Elements Higher Biology 2001 Marking Scheme
8. Staying Engaged with Higher Biology 2001 Marking Scheme

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Higher Biology 2001 Marking Scheme
- 9. Balancing eBooks and Physical Books Higher Biology 2001 Marking Scheme
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Higher Biology 2001 Marking Scheme
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Higher Biology 2001 Marking Scheme
  - Setting Reading Goals Higher Biology 2001 Marking Scheme
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Higher Biology 2001 Marking Scheme
  - Fact-Checking eBook Content of Higher Biology 2001 Marking Scheme
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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