

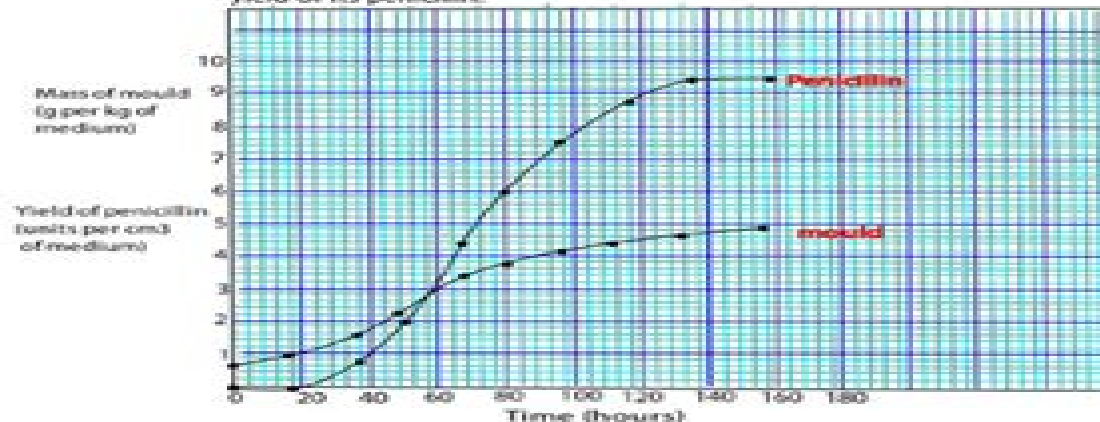
A-level

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

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**Jerry Finn, Dick Schoech**



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## **Table of Contents Higher Human Biology 2001 Marking Instructions**

1. Understanding the eBook Higher Human Biology 2001 Marking Instructions
  - The Rise of Digital Reading Higher Human Biology 2001 Marking Instructions
  - Advantages of eBooks Over Traditional Books
2. Identifying Higher Human Biology 2001 Marking Instructions
  - 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 Human Biology 2001 Marking Instructions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Higher Human Biology 2001 Marking Instructions
  - Personalized Recommendations
  - Higher Human Biology 2001 Marking Instructions User Reviews and Ratings
  - Higher Human Biology 2001 Marking Instructions and Bestseller Lists
5. Accessing Higher Human Biology 2001 Marking Instructions Free and Paid eBooks

- Higher Human Biology 2001 Marking Instructions Public Domain eBooks
- Higher Human Biology 2001 Marking Instructions eBook Subscription Services
- Higher Human Biology 2001 Marking Instructions Budget-Friendly Options
- 6. Navigating Higher Human Biology 2001 Marking Instructions eBook Formats
  - ePub, PDF, MOBI, and More
  - Higher Human Biology 2001 Marking Instructions Compatibility with Devices
  - Higher Human Biology 2001 Marking Instructions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Higher Human Biology 2001 Marking Instructions
  - Highlighting and Note-Taking Higher Human Biology 2001 Marking Instructions
  - Interactive Elements Higher Human Biology 2001 Marking Instructions
- 8. Staying Engaged with Higher Human Biology 2001 Marking Instructions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Higher Human Biology 2001 Marking Instructions
- 9. Balancing eBooks and Physical Books Higher Human Biology 2001 Marking Instructions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Higher Human Biology 2001 Marking Instructions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Higher Human Biology 2001 Marking Instructions
  - Setting Reading Goals Higher Human Biology 2001 Marking Instructions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Higher Human Biology 2001 Marking Instructions
  - Fact-Checking eBook Content of Higher Human Biology 2001 Marking Instructions
  - 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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