

AP BIO Unit 3 Released FRQs

2017 #7

Question 7

Many species of bacteria grow in the mouths of animals and can form biofilms on teeth (plaque). Within plaque, the outer layers contain high levels of oxygen and the layers closest to the tooth contain low levels of oxygen. The surface of the tooth is covered in a hard layer of enamel, which can be dissolved under acidic conditions. When the enamel breaks down, the bacteria in plaque can extract nutrients from the tooth and cause cavities.

Certain types of bacteria (e.g., *Streptococcus mutans*) thrive in the innermost anaerobic layers of the plaque and are associated with cavities. Other types of bacteria (*Streptococcus sanguinis*) compete with *S. mutans* but are unable to thrive in acidic environments.

- (a) **Identify** the biochemical pathway *S. mutans* uses for metabolizing sugar and **describe** how the pathway contributes to the low pH in the inner layers of plaque. (2 points; both points must be earned from the same row.)

Identification	Description
fermentation	(lactic) acid/lactate
anaerobic respiration	acid
glycolysis	(pyruvic) acid/pyruvate

- (b) Normal tooth brushing effectively removes much of the plaque from the flat surfaces of teeth but cannot reach the surfaces between teeth. Many commercial toothpastes contain alkaline components, which raise the pH of the mouth. **Predict** how the population sizes of *S. mutans* AND *S. sanguinis* in the bacterial community in the plaque between the teeth are likely to change when these toothpastes are used. (1 point)

Prediction (1 point)

- *S. mutans* decreases AND *S. sanguinis* increases

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AW Chickering



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Table of Contents 13 Ap Bio Exam Released Grid

1. Understanding the eBook 13 Ap Bio Exam Released Grid
 - The Rise of Digital Reading 13 Ap Bio Exam Released Grid
 - Advantages of eBooks Over Traditional Books
2. Identifying 13 Ap Bio Exam Released Grid
 - 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 13 Ap Bio Exam Released Grid
 - User-Friendly Interface

4. Exploring eBook Recommendations from 13 Ap Bio Exam Released Grid
 - Personalized Recommendations
 - 13 Ap Bio Exam Released Grid User Reviews and Ratings
 - 13 Ap Bio Exam Released Grid and Bestseller Lists
5. Accessing 13 Ap Bio Exam Released Grid Free and Paid eBooks
 - 13 Ap Bio Exam Released Grid Public Domain eBooks
 - 13 Ap Bio Exam Released Grid eBook Subscription Services
 - 13 Ap Bio Exam Released Grid Budget-Friendly Options
6. Navigating 13 Ap Bio Exam Released Grid eBook Formats
 - ePub, PDF, MOBI, and More
 - 13 Ap Bio Exam Released Grid Compatibility with Devices
 - 13 Ap Bio Exam Released Grid Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 13 Ap Bio Exam Released Grid
 - Highlighting and Note-Taking 13 Ap Bio Exam Released Grid
 - Interactive Elements 13 Ap Bio Exam Released Grid
8. Staying Engaged with 13 Ap Bio Exam Released Grid
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 13 Ap Bio Exam Released Grid
9. Balancing eBooks and Physical Books 13 Ap Bio Exam Released Grid
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 13 Ap Bio Exam Released Grid
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 13 Ap Bio Exam Released Grid
 - Setting Reading Goals 13 Ap Bio Exam Released Grid
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of 13 Ap Bio Exam Released Grid
 - Fact-Checking eBook Content of 13 Ap Bio Exam Released Grid
 - 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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