

Name: _____

Time allowed: 10 minutes

CHO - Test (5) - Glycolysis & Krebs cycle

Read the following sentences carefully, then choose the appropriate answer(s) for each & write your answer in the answer sheet:

1. The conversion of pyruvate to acetyl CoA and CO₂:
 - a) Is reversible.
 - b) Involves the participation of lipoic acid.
 - c) Is inhibited when (E1) of pyruvate dehydrogenase complex is phosphorylated by PDH kinase in presence of ATP.
 - d) Occurs in the cytosol.
 - e) Depends on the coenzyme biotin.
2. Which one of the following conditions decreases the oxidation of acetyl CoA by citric acid cycle?
 - a) Low ATP/ADP ratio
 - b) Low NADH concentration due to rapid oxidation to NAD⁺ through the respiratory chain
 - c) Low NAD⁺/NADH ratio
 - d) High concentration of AMP
 - e) Low GTP/GDP ratio

3. The following is the sum of three steps in the citric acid cycle:



Choose the lettered answer that corresponds to the missing "A", "B", and "C" in the equation:

	Reactant A	Reactant B	Reactant C
a)	Succinyl CoA	GDP	Succinate
b)	Succinate	NAD ⁺	Oxaloacetate
c)	Fumarate	NAD ⁺	Oxaloacetate
d)	Succinate	NAD ⁺	Malate
e)	Fumarate	GTP	Malate

4. 1-month-old male showed abnormalities of the nervous system and lactic acidosis. Enzyme assay for pyruvate dehydrogenase (PDH) activity on extracts of cultured skin fibroblasts showed 5% of normal activity, with low concentration (1 x 10⁻⁴ mM) of thiamine pyrophosphate (TPP), but 80% of normal activity when the assay contained high (0.4 mM) concentration of TPP. Which one of the following statements concerning this patient is most correct?
 - a) The patient is expected to show disturbances in fatty acid degradation.
 - b) Diet consisting of high carbohydrate intake would be expected to be beneficial in this patient.
 - c) Alanine concentration in the blood is expected to be less than normal.
 - d) Administration of thiamine is expected to reduce his serum lactate concentration and improve his clinical symptoms.

Glycolysis Pogil Answers

AW Rasmussen



Glycolysis Pogil Answers:

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Table of Contents **Glycolysis Pogil Answers**

1. Understanding the eBook Glycolysis Pogil Answers
 - The Rise of Digital Reading Glycolysis Pogil Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Glycolysis Pogil Answers
 - 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 Glycolysis Pogil Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Glycolysis Pogil Answers
 - Personalized Recommendations
 - Glycolysis Pogil Answers User Reviews and Ratings
 - Glycolysis Pogil Answers and Bestseller Lists

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