

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 CO<sub>2</sub>:
  - 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<sup>+</sup> through the respiratory chain
  - c) Low NAD<sup>+</sup>/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 <sup>+</sup>	Oxaloacetate
c)	Fumarate	NAD <sup>+</sup>	Oxaloacetate
d)	Succinate	NAD <sup>+</sup>	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<sup>-4</sup> 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

**A. H. Underwood**



## **Glycolysis Pogil Answers:**

Glycolysis 247 Success Secrets - 247 Most Asked Questions on Glycolysis - What You Need to Know Jimmy Graves, 2014-10-15 Feel The Power Of Glycolysis There has never been a Glycolysis Guide like this It contains 247 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Glycolysis A quick look inside of some of the subjects covered Enzymes Biological function Glucose Energy source Fermentation Lactic acid fermentation Pyruvate kinase Deficiency Triosephosphate isomerase Mechanism Carbohydrate metabolism Energy Production Glycogenolysis Function Bioethanol Biofuel gasoline Isotopic labeling Stable isotope labeling Lipolysis Chemiosmosis In mitochondria Glycolysis Citric acid cycle Regulation Microbial metabolism Fermentation Beta cell Control of Insulin Secretion Aldose reductase Function PKM2 Bi functional role within tumors Metabolic Proteins Fatty acid synthesis Fermentation Aerobic respiration Fructolysis Fructolysis and glycolysis are independent pathways PFK2 Regulation Bipedal Respiration Bisphosphoglycerate mutase Function Dehydrogenase Examples List of biology topics Cellular and molecular biology Uridine Uridine in the Glycolysis Pathway Lactate dehydrogenase Reactions Muscle Microbial metabolism Heterotrophic microbial metabolism Muscle mass Types of tissue Cell biologist Other cellular processes Pyruvate kinase Reaction Metabolism Energy from organic compounds Polyethylene terephthalate Partial glycolysis Fructose biphosphate aldolase In gluconeogenesis and glycolysis Citric acid cycle Products Jakub Karol Parnas Achievements and much more **Glycolysis** Paul N. Lithaw, 2009 Glycolysis literally means splitting sugars In glycolysis glucose a six carbon sugar is split into two molecules of a three carbon sugar Glycolysis yields two molecules of ATP free energy containing molecule two molecules of pyruvic acid and two high energy electron carrying molecules of NADH Glycolysis can occur with or without oxygen In the presence of oxygen glycolysis is the first stage of cellular respiration Without oxygen glycolysis allows cells to make small amounts of ATP This process is called fermentation This book presents the latest research in the field **Independent Study of Metabolism** Craig Zimitat, 1993 Thermodynamics of Glycolysis Thorsten Greinert, 2020 Evolution of Glycolysis, 1993 *The Enzymes of Glycolysis* David Phillips, 1981 Glycolysis Rita Ferreira, Pedro Fontes Oliveira, Rita Nogueira-Ferreira, 2023-10-13 Glycolysis Tissue Specific Metabolic Regulation in Physio Pathological Conditions provides an integrated overview of glycolysis spanning basic biochemistry patho physiology and therapeutic applications The book also instructs in methods available to study the involvement of the glycolytic events in healthy biology and disease pathology It begins with an overview of fundamental glycobiology followed by chapters dedicated to glycolysis physiology in organs and systems pathologic conditions related to glycolytic alterations glycolysis as a therapeutic target and in drug discovery efforts and methodological approaches to advance new glycolysis research Disease areas considered range from cancer to heart

failure diabetes inborn glycolytic pathway defects hematologic malignancies osteoporosis neurodegenerative diseases and viral Infections Omics and computational modeling interactive study methods and glycolysis flux measurement are described in detail with step by step descriptions of experimental protocols set up and analysis Features chapter contributions from international leaders in the field Spans fundamental aspects of glycolysis patho physiology and drug discovery Includes step by step instruction in a range of research protocols ranging from Omics to interactive analysis and measuring glycolysis flux

**Glycolysis at 75: Is it Time to Tweak the First Elucidated Metabolic Pathway in History?** Avital Schurr, Evelyne Gozal, 2015-07-08 Glycolysis the pathway of enzymatic reactions responsible for the breakdown of glucose into two trioses and further into pyruvate or lactate was elucidated in 1940 For more than seven decades it has been taught precisely the way its sequence was proposed by Embden Meyerhof and Parnas Accordingly two outcomes of this pathway were proposed an aerobic glycolysis with pyruvate as its final product and an anaerobic glycolysis identical to the aerobic one except for an additional reaction where pyruvate is reduced to lactate Several studies in the 1980s have shown that both muscle and brain tissues can oxidize and utilize lactate as an energy substrate challenging this monocarboxylate's reputation as a useless end product of anaerobic glycolysis These findings were met with great skepticism about the idea that lactate could be playing a role in bioenergetics In the past quarter of a century monocarboxylate transporters MCTs were identified and localized in both cellular and mitochondrial membranes A lactate receptor has been identified Direct and indirect evidence now indicate that the enzyme lactate dehydrogenase LDH resides not only in the cytosol as part of the glycolytic pathway machinery but also in the mitochondrial outer membrane The mitochondrial form of the enzyme oxidizes lactate to pyruvate and concomitantly produces the reducing agent NADH These findings have shed light on a major drawback of the originally proposed aerobic version of the glycolytic pathway i.e. its inability to regenerate NAD as opposed to anaerobic glycolysis that features the cyclical ability of regenerating NAD upon pyruvate reduction to lactate by the cytosolic form of LDH The malate aspartate shuttle MAS a major redox shuttle in the brain was proposed as an alternative pathway for NAD generation for aerobic glycolysis Nonetheless would MAS really be necessary for that function if glycolysis always proceeds to the end products lactate and NAD An additional dilemma the originally proposed aerobic glycolysis presents has to do with the glycolytic pathway of erythrocytes which despite its highly aerobic environment always produces lactate as its end product It is time to reexamine the original dogmatic separation of glycolysis into two distinct pathways and put to test the hypothesis of a unified singular pathway the end product of which is lactate the real substrate of the mitochondrial TCA cycle

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**Glucose Uptake by "Trypanosoma Brucei"** Benno H. Ter Kuile, Frederik R. Opperdoes, 1991      Non-Glycolytic Pathways of Metabolism of Glucose Siegfried Hollmann, 2012-12-02

Non Glycolytic Pathways of Metabolism of Glucose provides information pertinent to the metabolism of glucose. This book discusses the features of glycolysis and explores the other possibilities for glucose breakdown in mammalian metabolism. Organized into 13 chapters, this book starts with an overview of the regulatory factors in glucose breakdown, including the distribution of enzymes in various organs, the concentration of inorganic ions, as well as the composition of diets, hormones, and vitamins. This text then discusses the glucose dehydrogenation activity, which oxidizes glucose in the presence of methylene blue. Other chapters consider the capacity of mammalian organisms to degrade gluconic acid to a limited extent. This book discusses as well the levels of activity of dehydrogenases in mammalian tissues. The final chapter deals with the reduction methods and colorimetric procedures for the estimation of sugars and their derivatives. This book is a valuable resource for chemists, biologists, biochemists, and biophysicists.

*A Critical and Experimental Study of Glycolysis*, 1928      *Elevation of Cardiac Glycolysis Reduces Pyruvate Dehydrogenase But Increases Glucose Oxidation* Qianwen Wang, 2011      **Insulin and glycolysis** John James Rickard Macleod, E. C. Noble, 1923      *The Inhibition of Glycolysis*, 1939      **Gluconeogenesis and Related Aspects of Glycolysis** H. G. Heers, L. Hue, 1983      **Glycolysis in Pharmacology ...** Chalmers Laughlin Gemmill, 1950      **The Effect of Diet on the Multiple Site Regulation of Glycolysis in Rat Skeletal Muscle** Sheryl L. Smith, 1987      *The Enzymes of Glycolysis*, 1981

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### **Glycolysis Pogil Answers Introduction**

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