

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 And The Krebs Cycle Pogil Answer Key

A Gutmann



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