

MCM Practice Questions: Lecture Day 5

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August 2022

Lecture 16: Gluconeogenesis

1) What enzyme in gluconeogenesis acts in reverse to the enzyme Phosphofructokinase-1?)

- (A) Pyruvate carboxylase
- (B) Phosphoenolpyruvate carboxykinase
- (C) Fructose-1,6-bisphosphatase
- (D) G-6-Phosphatase

2) Alanine Aminotransferase catalyzes what reaction?

- (A) Glutamate \rightarrow alpha ketoglutarate
- (B) Alanine \rightarrow Pyruvate
- (C) Pyruvate \rightarrow Glutamine
- (D) Alanine \rightarrow Glutamine

3) Which of the following is a correct reason glucose utilization by muscles is limited?

- (A) Low Acetyl CoA
- (B) Inhibition of Glycogen Phosphorylase
- (C) High GLUT-1
- (D) Low GLUT-4

4) Arnold is training for his next strongman competition. He just finished eating a protein rich meal. Which of the following choices is most likely to happen in his bloodstream immediately after eating this meal?

- (A) Glucagon level will decrease
- (B) glucagon level will increase
- (C) blood glucose will increase
- (D) blood glucose will increase