



**QUIZ TIME**

# Bio- chemistry

**Lec26**

Done by:

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1. What is the primary function of the urea cycle?

- A. Synthesize amino acids
- B. Detoxify ammonia
- C. Produce glucose
- D. Store nitrogen

Answer: B. Detoxify ammonia

2. Where does the urea cycle occur?

- A. Kidney
- B. Liver
- C. Muscle
- D. Intestine

Answer: B. Liver

3. Which enzyme is the rate-limiting step of the urea cycle?

- A. Arginase
- B. Ornithine transcarbamylase
- C. Carbamoyl phosphate synthetase I
- D. Arginosuccinate lyase

Answer: C. Carbamoyl phosphate synthetase I

4. Which molecule activates carbamoyl phosphate synthetase I?

- A. ATP
- B. NAD<sup>+</sup>
- C. N-acetylglutamate
- D. Fumarate

Answer: C. N-acetylglutamate

5. Which intermediate links the urea cycle to the Krebs cycle?

- A. Citrulline
- B. Fumarate
- C. Ornithine
- D. Arginine

Answer: B. Fumarate

