

Endo - meta

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Lecture 5

Citric Acid Cycle

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metabolism-lecture (5)

1) Which of these enzymes is stereospecific:

- .A- Isocitrate dehydrogenase
- .B- G6P Dehydrogenase
- .C- Fumarase
- .D- Pyruvate carboxylase

Answer: C

2) total ATP molecules in the liver

- A) 28
- B) 30
- C) 32
- D) 34

Answer: C

3) From one acetyl-CoA molecule, what are the net products of a single turn of the citric acid (Krebs) cycle?

- ,A) 1 NADH, 2 FADH₂
- ,B) 3 NADH, 1 FADH₂
- ,C) 3 NADH, 0 FADH₂
- ,D) 2 NADH, 2 FADH₂

Answer: B

metabolism-lecture (5)

4) Which enzyme functions in both the Krebs cycle and the electron transport chain?

- A. Succinate dehydrogenase
- B. Citrate synthase
- C. Isocitrate dehydrogenase
- D. Aconitase
- E. Pyruvate dehydrogenase

Answer: A