PRACTICE: FATTY ACID OXIDATION

- 23. In the catabolism of fat (triacylglycerols), glycerol enters central metabolism as:
 - a. glucose.
 - b. dihydroxyacetone phosphate.
 - c. acetate.
 - d. pyruvate.
 - e. glyceryl-CoA.
- 24. Carnitine is:
 - a. a 15 carbon fatty acid.
 - b. a Citric Acid Cycle cofactor.
 - c. essential for intracellular transport of fatty acids.
 - d. a rare amino acid found in proteins.
 - e. present only in carnivores.
- 25. What is the correct order of enzymes in β -oxidation?
 - 1. β-hydroxyacyl-CoA dehydrogenase
 - 2. thiolase
 - 3. enoyl-CoA hydratase
 - 4. acyl-CoA dehydrogenase
 - a. 1, 2, 3, 4,
 - b. 2, 3, 4, 1
 - c. 4, 3, 1, 2
 - d. 2, 4, 3, 1
 - e. 3, 1, 4, 2
- 26. The conversion of one palmitic acid (16:0) through β -oxidation and the Citric Acid Cycle and all of the energy intermediates are converted to ATP equivalents that equal:
 - a. 3
 - b. 108
 - c. 32
 - d. 1000
 - e. 10
- 27. The conversion of one palmitoleic acid (16:1) through β -oxidation and the Citric Acid Cycle and all the energy intermediates are converted to ATP equivalents that equal:
 - a. 4
 - b. 106
 - c. 31
 - d. 1004
 - e. 12