

SECTION 7-2 REVIEW

AEROBIC RESPIRATION

VOCABULARY REVIEW Define the following terms.

1. aerobic respiration _____

2. mitochondrial matrix _____

3. Krebs cycle _____

4. FAD _____

MULTIPLE CHOICE Write the correct letter in the blank.

- _____ 1. The breakdown product of glucose that diffuses into the mitochondrial matrix for further breakdown is
a. acetyl CoA. b. pyruvic acid. c. oxaloacetic acid. d. citric acid.
- _____ 2. The starting substance of the Krebs cycle, which is regenerated at the end of the cycle, is
a. acetyl CoA. b. pyruvic acid. c. oxaloacetic acid. d. citric acid.
- _____ 3. The Krebs cycle
a. breaks down a two-carbon molecule into two molecules of CO₂. c. produces NAD⁺ from NADH and H⁺.
b. produces a six-carbon molecule from six molecules of CO₂. d. generates most of the ATP produced in aerobic respiration.
- _____ 4. The electron transport chain of aerobic respiration
a. generates O₂ from H₂O.
b. produces NADH by chemiosmosis.
c. pumps electrons into the mitochondrial matrix.
d. pumps protons into the space between the inner and outer mitochondrial membranes.
- _____ 5. The maximum efficiency of aerobic respiration is approximately
a. 0.66%. b. 6.6%. c. 66%. d. 660%.