

# Cellular Respiration Assignment

I. **MULTIPLE CHOICES.** Select the best answer. Write the letter of your choice on the space provided.

- \_\_\_\_\_ 1. Electron transport chain allows the electron to \_\_\_\_\_.
- a) transfer from grana to stroma.
  - b) transfer from sun energy to chlorophyll.
  - c) transfer into carotene.
  - d) release energy.
- \_\_\_\_\_ 2. Citric acid cycle starts by combining acetyl group with four-carbon compound to form \_\_\_\_\_.
- a) citric acid
  - b) acetic acid
  - c) adenine
  - d) malic acid
- \_\_\_\_\_ 3. Muscle fibers which perform vigorous exercise form a great percentage of \_\_\_\_\_.
- a) pyruvic acid
  - b) lactic acid
  - c) citric acid
  - d) acetic acid
- \_\_\_\_\_ 4. In cellular aerobic respiration, oxidation of glucose occurs through \_\_\_\_\_.
- a) combining glucose with oxygen
  - b) glucose losing oxygen
  - c) combining glucose with hydrogen
  - d) glucose losing electrons
- \_\_\_\_\_ 5. CO<sub>2</sub> is released as a result of \_\_\_\_\_.
- a) glycolysis
  - b) fermentation of lactic acid
  - c) alcoholic fermentation
  - d) dehydration of glycogen

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\_\_\_\_\_ 6. Electron transport chain is described as \_\_\_\_\_.

- a) molecular carrier which change by enzyme changing
- b) oxidative phosphorylation cycle
- c) sequences of oxidation and reduction
- d) exothermic reaction

## II. Explain the following.

1. 38 molecules of ATP are produced from the complete oxidation of one glucose molecule.

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2. Cellular respiration differs from burning process.

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3. Photosynthesis is linked by respiration in plants.

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4. Anaerobic respiration is called alcoholic fermentation in case of yeast fungus.

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# Cellular Respiration Assignment

**III. The inner membrane of the mitochondria is folded. What would happen if it was straight?**

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**IV. Compare between:**

1. Aerobic respiration and anaerobic respiration.

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2. Acidic fermentation and alcoholic fermentation.

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