**Cellular Respiration Review**

1. Which of the following processes produces the most ATP molecules per glucose molecule consumed?

a. Krebs Cyclehttp://www.biologycorner.com/resources/spacer_30x30.gifb. electron transport/chemiosmosishttp://www.biologycorner.com/resources/spacer_30x30.gifc. glycolysis

2. The purpose of cell respiration is to:

a. synthesize carbohydrates from CO2http://www.biologycorner.com/resources/spacer_30x30.gifb. break down carbohydrates to provide energy for the cellhttp://www.biologycorner.com/resources/spacer_30x30.gifc. provide oxygen for the cell

3. The NET RESULT of glycolysis is:

a. 4ATP and 4NADHhttp://www.biologycorner.com/resources/spacer_30x30.gifb. 4ATP and 2NADHhttp://www.biologycorner.com/resources/spacer_30x30.gifc. 2ATP and 2 NADH

4. 2K + Br2 --> 2K+ + 2Br-http://www.biologycorner.com/resources/spacer_30x30.gifIn the reaction, potassium is:

a. neutralizedhttp://www.biologycorner.com/resources/spacer_30x30.gifb. oxidizedhttp://www.biologycorner.com/resources/spacer_30x30.gifc. reduced

5. In the course of the Krebs Cycle, how many molecules of ATP are produced?

a. 2http://www.biologycorner.com/resources/spacer_30x30.gifb. 4http://www.biologycorner.com/resources/spacer_30x30.gifc. 36

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| 6. The process by which glucose is split into pyruvate. 7. The process by which a hydrogen gradient is used to create ATP 8. A process that makes a small amount of ATP and produces lactic acid 9. A series of membrane embeddded eletron carriers that ultimately create the hydrogen ion gradient to drive the synthesis of ATP 10. The process by which the breakdown of glucose is completed and CO2 is produced 11. The process that does NOT occur in the mitochondria 12. Also known as the Citric Acid Cycle 13. Starts with Acetyl-CoA | Choices for 6-13   |  | | --- | | a. chemiosmosis b. Electron transport chain c. Krebs Cycle d. Glycolysis e. Fermentation | |

14. Muscle fatigue is caused when the process of fermentation produces:  
a. ethanolhttp://www.biologycorner.com/resources/spacer_30x30.gifb. lactic acidhttp://www.biologycorner.com/resources/spacer_30x30.gifc. ATP

15. For each molecule of glucose broken down, the Kreb's cycle must make \_\_\_ complete turns.  
a. 2http://www.biologycorner.com/resources/spacer_30x30.gifb. 4http://www.biologycorner.com/resources/spacer_30x30.gifc 36

