

By Cheryl Massengale

### ***Review over Glucose Metabolism***

Match each of the following occurrences to the correct part of the glucose metabolism process. If more than one answer is correct, write all letters in the blank.

- A. Glycolysis
- B. Fermentation
- C. Cellular Respiration (aerobic)
- D. Krebs Cycle
- E. Electron Transport Chain

- \_\_\_\_\_ 1. Most of the ATP is made
- \_\_\_\_\_ 2. Occurs only under anaerobic conditions
- \_\_\_\_\_ 3. Occurs only under aerobic conditions
- \_\_\_\_\_ 4. Uses phosphorylation
- \_\_\_\_\_ 5. Occurs under aerobic and anaerobic conditions
- \_\_\_\_\_ 6. Can occur under anaerobic conditions
- \_\_\_\_\_ 7. Glucose splits into 2, Pyruvic acid molecules
- \_\_\_\_\_ 8. Occurs in the mitochondria
- \_\_\_\_\_ 9. PGAL forms
- \_\_\_\_\_ 10. Lactic acid forms
- \_\_\_\_\_ 11. Occurs in the cytoplasm
- \_\_\_\_\_ 12. Produces CO<sub>2</sub> and ATP
- \_\_\_\_\_ 13. Requires some ATP to get started
- \_\_\_\_\_ 14. Ethanol produced
- \_\_\_\_\_ 15. Acetyl-CoA involved
- \_\_\_\_\_ 16. Citric acid cycle
- \_\_\_\_\_ 17. CO<sub>2</sub> not a byproduct
- \_\_\_\_\_ 18. H<sub>2</sub>O is a byproduct
- \_\_\_\_\_ 19. Nets 2 ATP
- \_\_\_\_\_ 20. Completes glucose metabolism