

Name: \_\_\_\_\_

Date: \_\_\_\_\_

- [4 pt] 1. Write a simple reaction representing the overall oxidation of glucose. This is the reverse of what process?
- [2 pt] 2. Define the term "Basal Metabolic Rate".
- [4 pt] 3. What are the 2 primary sources of energy (in order of usage) used by skeletal muscle.
- [3 pt] 4. Why is glucose unique among energy-providing molecules?
- [4 pt] 5. Glucose is the major source of energy to what organ(s) in the body? Why is glucose preferred?
- [4 pt] 6. What role does (a) the lungs and (b) the liver play in the usage of glucose by skeletal muscle?
- [3 pt] 7. Where does the breakdown of starch first occur in the body? What enzyme is used?

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[3 pt] 8. Starch is broken down into what disaccharide? What type of chemical reaction occurs?

[3 pt] 9. Three terms that are always confusing are (a) Glycogenolysis (b) Glycogenesis and (c) Glyconeogenesis. Define each.

[6 pt] 10. Sketch a picture showing the relationships between (a) Glycogen (b) Glucose and (c) Pyruvate/Lactate.

[4 pt] 11. What happens to excess glucose in the body? What is the process called?