Chapter 6 practice questions

1. The building of complex organic molecules from simpler ones is a process known as?

a. Catabolism

b. Glycolysis

c. TCA

d. Anabolism

2. True or False. When proteins are built from amino acids, energy in the form of ADP is consumed.

a. True

b. False

3. Which portion of Adenosine tri-phosphate (ATP) is considered high energy ie energy is released driving force for other reactions.

a. The Adenosine base

b. The ribose sugar

c. The phosphate

d. None of the above

4. ATP can be synthesized by energy derived from which two sources?

a. Solar and Fermentation

b. Oxidative processes and Solar

c. Enzymes and Solar

d. All of the above

5. Fill in the Blank. The …………. pathway produces pyruvate from glucose.

a. Fermentation pathway

b. The TCA cycle

c. The ETC

d. The glycolysis pathway

6. True or False. Fatty acids can be catabolized by cellular respiration for the generation of ATP.

a. True

b. False

7. NADH is ?

1. The oxidized form of NAD+
2. An oxygen requiring enzyme used in glycolysis
3. Consumed during the Krebs cycle
4. Able to pass electrons on to electron carriers located in the bacterial plasma membrane
5. Not involved in fermentation

8. Alcohol fermentation produces the waste products …..(1) and ….(2)?

a. Lactic acid and CO2

b. ethanol and lactic acid

c. Ethanol and CO2

d. none of the above

9. A terminal oxygen electron acceptor is utilized in which process?

a. TCA

b. ETC

C. Glycolysis

d. All of the above

10. Enzymes serve as catalysts to?

a. To slow down a chemical reaction

b. To lower the activation energy

c. To help speed up chemical reactions

d. a and b

e. b and c