1. In theory, how many molecules of ATP can be produced from one molecule of acetyl-CoA if its carbons are completely metabolized in respiration?
   a. 7.5   b. 8   c. 9   d. 9.5   e. 15   f. 10
   (none of the choices a to e were correct.)

2. In eukaryotic cells, the Krebs Cycle occurs in
   a. the mitochondrial matrix.
   b. the Golgi apparatus
   c. the cytoplasm
   d. the inner mitochondrial membrane

3. What happens to the O₂ you breath in?
   a. it is combined with carbon to produce CO₂
   b. it is combined with H to produce H₂O
   c. it is used in the Krebs cycle to metabolize acetyl Co-A
   d. it is used to detoxify alcohol produced during anaerobic glycolysis

4. When you exercise actively, your muscles become oxygen deprived. What do oxygen deprived muscles do in order to continue extracting energy from glucose?
   a. they produce lactic acid
   b. they metabolize pyruvate in the Krebs Cycle
   c. they produce ethanol
   d. they oxidize NADH in the electron transport system

5. In which process is CO₂ produced?
   a. the electron transport system
   b. glycolysis
   c. Krebs cycle
   d. β-oxidation