**Physiology 115 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Spring 2015

**QUIZ #4**

For the multiple choice questions, there is *one* and *only one* best answer. Use the back of the sheet if you need to complete answers.

1. Which structure in the mitochondria contains the proteins and lipids involved in the oxidation-reduction reactions of the electron transport system?
   1. cytosol
   2. matrix
   3. intermembrane space
   4. outer membrane
   5. inner membrane
2. Which of these electron-accepting coenzymes will produce three (3) ATP molecules during oxidative phosphorylation?
   1. FADH2
   2. NADH
   3. ethanol
   4. lactate
   5. CO2
3. Which of these is a function or feature in a lysosome?
   1. contains digestive enzymes in its vesicle that will activate on acidification
   2. has proton (H+)-ATPases in its membrane to pump H+ into the vesicle
   3. is produced as a vesicle budding off the *trans* face of the Golgi complex
   4. all of the above
   5. none of the above
4. Do EITHER (a) OR (b)  
   (a) Give the names of three (3) things that fundamentally form or are characteristic of the rough ER   
   (b)What are the three (3) trafficking fates for vesicles coming off the Golgi complex (name & describe)?