

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?
 - a. cytosol
 - b. matrix
 - c. intermembrane space
 - d. outer membrane
 - e. inner membrane
2. Which of these electron-accepting coenzymes will produce three (3) ATP molecules during oxidative phosphorylation?
 - a. FADH_2
 - b. NADH
 - c. ethanol
 - d. lactate
 - e. CO_2
3. Which of these is a function or feature in a lysosome?
 - a. contains digestive enzymes in its vesicle that will activate on acidification
 - b. has proton (H^+)-ATPases in its membrane to pump H^+ into the vesicle
 - c. is produced as a vesicle budding off the *trans* face of the Golgi complex
 - d. all of the above
 - e. 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)?