**Nutrition, Metabolism, and Body Temperature**

**Practice Quiz**

1. Fill in the table with the numbers of each product produced during each step of cellular respiration.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Glycolysis** | **Pre-Krebs** | **Krebs** | **ETC** | **Totals** |
| ATP (net)  |  |  |  |  |  |
| CO2 |  |  |  | N.A. |  |
| NADH |  |  |  | N.A. |  |
| FADH2 |  |  |  | N.A. |  |

2. Describe the function of each of these appetite controlling chemicals; orexins, neuropeptide Y, galanin,

 serotonin, and leptin.

3. List the fat-soluble vitamins and the function on each.

4. Next to each mineral indicate whether it is classified as a major mineral or trace mineral (according to

 the lecture notes).

 1) Copper (Cu) – 7) Iron (Fe) –

 2) Calcium (Ca) – 8) Magnesium (Mg) –

 3) Iodine (I) – 9) Sodium (Na) –

 4) Potassium (K) – 10) Manganese (Mn) –

 5) Phosphorus (P) – 11) Zinc (Zn) –

 6) Chloride (Cl) – 12) Sulfur (S) –

5. From which vitamins are NAD & FAD derived? How many electrons can each carry?

6. Which part of the brain controls both hunger & body temp?

7. Define the following terms. Indicate if it functions in heat loss or gain; convection, radiation,

 conduction, shivering, and evaporation.

8. How many ATP can be produced from each NADH? From each FADH2?

9. What is the starting chemical for glycolysis? Pre-Krebs?

10. What is the end product of glycolysis? Pre-Krebs?

11. What molecule enters into the Krebs cycle? What chemical does it bind with? What chemical do they

 form?