**CH 8: CELLULAR ENERGY ANAEROBIC RESPIRATION OUTLINE QUIZ #4**

1. When \_\_\_a\_\_\_ is not present, \_\_\_b\_\_\_ follows glycolysis.
2. Fermentation occurs in the \_\_\_a\_\_\_ and the purpose is to restore \_\_\_b\_\_\_.
3. During lactic acid fermentation, lactic acid is formed from \_\_\_a\_\_\_ when \_\_\_b\_\_\_ transfers \_\_\_c\_\_\_ and protons to pyruvate.
4. Neither alcohol nor lactic acid fermentation produces any \_\_\_a\_\_\_. However they both replenish \_\_\_b\_\_\_ needed to run glycolysis which does create a net of \_\_\_c\_\_\_.
5. During alcohol fermentation, \_\_\_a\_\_\_ alcohol is created when a \_\_\_b\_\_\_ molecule is released from pyruvate and gains electrons and protons from \_\_\_c\_\_\_.

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|  | **ORGANISM THAT PERFORMS PROCESS** | **ORGANELLE WHERE PROCESS TAKES PLACE** | **REACTANTS** | **PRODUCTS** | **SPECIFIC PROCESSES/CYCLES/STAGES** | **LOCATION OF PROCESS FROM PREVIOUS COLUMN (DRAW A LINE TO CONNECT)** |
| **PHOTOSYNTHESIS** | AUTOTROPHSHETEROTROPHS | MITOCHONDRIACHLOROPLAST | C6H12O6CO2H20ENERGYO2 | C6H12O6CO2H20ENERGYO2 | ELECTRON TRANSPORTGLYCOLYSISKREB’S CYCLELIGHT DEPENDENT REACTIONLIGHT INDEPENDENT REACTION (CALVIN CYCLE) | CYTOPLASMINNER MEMBRANEMATIRIXSTROMATHYLAKOID (MEMBRANE) |
| **CELLULAR RESPIRATION** | AUTOTROPHSHETEROTROPHS | MITOCHONDRIACHLOROPLAST | C6H12O6CO2H20ENERGYO2 | C6H12O6CO2H20ENERGYO2 | LIGHT DEPENDENT ELECTRON TRANSPORTGLYCOLYSISKREB’S CYCLELIGHT DEPENDENT REACTIONLIGHT INDEPENDENT REACTION (CALVIN CYCLE) | CYTOPLASMINNER MEMBRANEMATIRIXSTROMATHYLAKOID (MEMBRANE) |