Consider the complete oxidation of glucose via glycolysis and the citric acid cycle.

- 1. How many total C-C and C-H bonds are present in one glucose?
- 2. How many redox steps? 12
- 3. How many NADH are produced?
- 4. Which enzymes catalyze reactions where NADH is produced? Dehydrozenuses's Glycraldehyde-3-phosphate isocitrate malate 5. How many FADH₂ are produced? Q
- 6. Which enzymes catalyze reactions where FADH2 is produced? Succentite dehydrosmase
- 7. How many CO_2 are produced? $\binom{1}{0}$
- 8. Which enzymes catalyze reactions where CO2 is produced? Ochydragnoses: 1800citrate & hetorlutarate Phrinato
- 9. How many ATP equivalents has the cell overall gained or lose?