

## Module 11 Study Guide

### Metabolism

#### Metabolic Pathways

- Several individual reactions
- **Catabolism: degradation** in which nutrients and cell constituents are **broken down** to salvage components and make energy
  - **Exergonic** oxidation of nutrient molecules
  - Free energy released and **used to drive endergonic processes**
- **Anabolism: biosynthesis**

#### Stepwise Oxidation of Metabolites During Glycolysis and Citric Acid Cycle

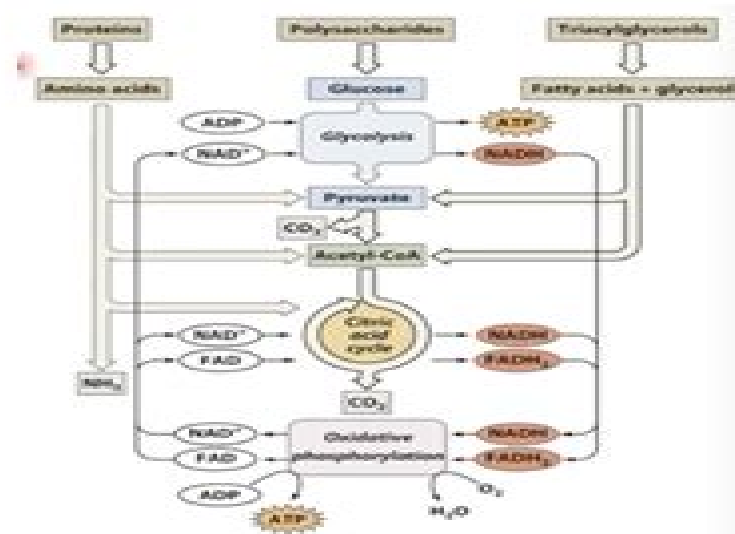
- Reduction of electron carriers **NADH and FADH<sub>2</sub>**
- **NAD<sup>+</sup> and FAD → Electron carriers**
  - **NAD<sup>+</sup>**: nicotinamide adenine dinucleotide
    - **Coenzyme**
    - **Two electron** reduction
  - **FAD**: flavin adenine dinucleotide
    - **One and two electron redox reactions**
  - Both must undergo **reversible reduction** so that they can accept electrons, pass them onto other electron carriers and thereby be regenerated to participate in additional cycles of oxidation and reduction
  - The protein components of redox enzyme play active roles in electron transfer reactions by modulating the reduction potentials of their bound redox active center
- Eventual release of carbon in fully oxidized form: **CO<sub>2</sub>**
- Production of **ATP via substrate-level phosphorylation**

#### Oxidative Phosphorylation

- Oxidation of electron carriers **NADH and FADH<sub>2</sub>** by ETC
- Passage of electrons down ETC to **O<sub>2</sub> → reducing O<sub>2</sub> to H<sub>2</sub>O**
  - Cellular respiration at work
  - **Oxygen can only accept unpaired electrons** because each of its two available lowest energy molecular orbitals is already occupied by one electron
- **Creation of H<sup>+</sup> gradient**
- H<sup>+</sup> gradient coupled to ATP synthesis by ATP synthase
- Overall goal is to make ATP

#### Generalizations

- Catabolic Pathways
  - **Extract energy by oxidizing fuel molecules** → input for biological macromolecules forced into the same process
  - Converge on a **few intermediates** (ex: Coenzyme A → acetyl coenzyme A)
  - **Generate ATP**
  - May generate **reducing power** and carbon skeletons by biosynthesis
    - Reduced electron carriers



# Exercise Metabolism Study Guide Answers

**Seager/Slabaugh**



## **Exercise Metabolism Study Guide Answers:**

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