

## Chapter 7: Microbial Metabolism – Study Guide with Answers

### Vocabulary

- **Metabolism** – All chemical reactions in a cell (building up + breaking down).
- **Anabolism** – Building large molecules from small ones; requires energy.
- **Catabolism** – Breaking down molecules to release energy.
- **Catalysts** – Substances (like enzymes) that speed up reactions without being used up.
- **Holoenzyme** – Complete enzyme (apoenzyme + cofactors).
- **Apoenzyme** – The protein portion of an enzyme (inactive without cofactors).
- **Cofactors** – Non-protein helpers (metal ions like  $Mg^{2+}$ ,  $Fe^{2+}$ ).
- **Coenzymes** – Organic cofactors (vitamin-based molecules like  $NAD^+$ ,  $FAO$ ).
- **Constitutive enzymes** – Always present and active.
- **Regulated enzymes** – Only made when needed (induced or repressed).
- **Competitive inhibition** – A molecule competes with the substrate for the active site.
- **Repression** – Enzyme synthesis is turned off when product accumulates.
- **Induction** – Enzyme synthesis is turned on in presence of a substrate.
- **Endergonic** – Requires energy.
- **Exergonic** – Releases energy.
- **Oxidation** – Loss of electrons or hydrogen.
- **Reduction** – Gain of electrons or hydrogen.
- **Phosphorylate** – Adding a phosphate group to a molecule.

# Microbial Metabolism Study Guide With Answers

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