General guidelines:

Basic mathematics:

1. Unitary methods, percentage, calculus, vector.

Basic chemistry:

1. Periodic table: 1st 30 atoms with their atomic weight, atomic number, valency of atom and functional group.
2. Terminologies: Atom, molecule, compound, element, functional group.
3. Nomenclature of inorganic compounds.
4. Basic organic chemistry, nomenclature.
5. Understanding chemical reactions, samyabostha, solution making and it’s property, acid, base, salt.

Basic physiology:

1. Fluid mosaic model, organelle and their functions, cellular transport mechanism, receptor and ligand with their mechanism, knowing all type of cell.
2. Central dogma, cell division, proteomics.
3. Systemic physiology.

Biochemistry:

1. Digestion absorption and metabolism of macromolecules
2. Major pathways of biochemistry.
3. Enzyme, co-enzymes, vitamin.