

BSP460 METABOLISM AND BIOENERGETICS

Course Outcomes:

After successful completion of the course, students will be able to :

- CO 1. Perform spectrophotometric estimation of various metabolites.
 - CO 2. Diagnose some of the metabolic diseases through biochemical tests.
 - CO 3. Quantify vitamins and phenolics in plant samples.
 - CO 4. Calculate standard free energy change, redox potential, and mitochondrial respiration.
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- 1. Spectrophotometric estimation of metabolites: serum protein, sugar, creatinine, urea, uric acid
 - 2. Colorimetric analysis of vitamins, ascorbic acid etc.,
 - 3. Estimation of plant phenolics
 - 4. Tests to measure glycosuria, proteinuria etc
 - 5. Calculations in Bioenergetics: standard free energy change, redox potential, mitochondrial respiration etc

