

## LAB SYLLABUS - MICROBIAL BIOCHEMISTRY & METABOLISM (MBP- 201)

1. Qualitative Analysis of Carbohydrates.
2. Qualitative Analysis of Amino acids.
3. Colorimetric estimation DNA by diphenylamine method.
4. Colorimetric estimation of proteins by Biuret/Lowry method.
5. Paper chromatographic separation of sugars and amino acids.
6. Preparation of different media- Synthetic and Complex Media.
7. Setting and observation of Winogradsky column.
8. Estimation of CFU count by spread plate method/pour plate method.
9. Bacterial growth curve.
10. Factors affecting bacterial growth – pH.
11. Factors affecting bacterial growth – Temperature.
12. Factors affecting bacterial growth –Salts.