MBP-405: Microbial Techniques

- 1. Preparation of culture media & Inoculation methods
- 2. Colony characteristics of bacteria
- 3. Staining techniques (Simple, Negative, Gram's, Endospore, flagellar)
- 4. Bacterial Growth curve (Titrimetric and Turbidometric)
- 5. Enumeration of bacteria from different sources
- 6. Micrometry
- 7. Lactophenol cotton blue staining for fungal culture
- 8. Enumeration of fungi from soil, water and air
- 9. Study of endophytic fungi
- 10. Study of follicolous fungi
- 11. Isolation of VAM fungi
- 12. Identification of wood rotting fungi
- 13. Identification of Phytoplanktons in fresh water,& marine water
- 14. Isolation and culturing Cyanophycean members
- 15. Study of Lichens

MBP-406: Microbial Physiology

- 1. Estimation of reducing sugar by DNS method
- 2. Estimation of Protein by Lowry's method
- 3. Estimation of Protein by Biuret method
- 4. Estimation of Saponification value of fats
- 5. Estimation of Peroxide Value
- 6. Gelatin Hydrolysis by microorganisms
- 7. Fermentation of Carbohydrates
- 8. Casein Hydrolysis
- 9. Determination of specific gravity of fats & oils
- 10. Triple sugar Iron test
- 11. Urease production test
- 12. Determination of catalase activity
- 13. Determination of V_{max} and K_m value