
Contents

<i>Preface</i>	<i>vii</i>
<i>Acknowledgement</i>	<i>ix</i>

Unit-I: General Bacteriology

1. Glassware Used in Microbiology	3
2. Equipment Used in Clinical Microbiology Laboratory.....	7
3. Microscope	13
4. Collection and Transportation of Specimens.....	15
5. Gram's Staining.....	21
6. Acid Fast Stain (Ziehl-Neelsen Stain).....	24
7. Albert's Staining.....	27
8. Capsule Staining.....	29
9. Hanging Drop Method.....	31
10. Sterilization and Disinfection.....	33
11. Liquid Culture Media	40
12. Solid Culture Media	45
13. Culture Methods	50
14. Biochemical Tests.....	56
15. Antimicrobial Susceptibility Testing (AST).....	68
16. Care and Handling of Laboratory Animals	73
17. Ethics and Legality in Use of Laboratory Animals	76

Unit-II: Systemic Bacteriology

18. Staphylococci	81
19. Streptococci	84
20. Streptococcus pneumoniae (Pneumococcus)	89
21. Neisseria	91
22. Corynebacterium	93

23. Clostridium	97
24. Mycobacterium Tuberculosis	101
25. Enterobacteriaceae I: Escherichia Coli, Klebsiella and Proteus.....	106
26. Enterobacteriaceae II: Salmonella.....	111
27. Enterobacteriaceae III: Shigella	113
28. Pseudomonas	115
29. Vibrio.....	117
30. Brucella	121
31. Haemophilus Influenzae	123

Unit-III: Serology/Immunology

32. VDRL Test/RPR Test.....	129
33. Widal Test.....	133
34. CRP Test	136
35. Rheumatoid Factor (RF) Test	138
36. ASO Test	139
37. ELISA Test	141
38. Rapid Test.....	145

Unit-IV: Mycology

39. Laboratory Diagnosis of Fungal Infections.....	153
40. Dermatophytes.....	159
41. Candida Albicans.....	163
42. Cryptococcus Neoformans	166
43. Aspergillus.....	168
44. Zygomycetes	170

Unit-V: Parasitology

45. Stool Examination	175
46. Malaria Parasite	191
47. Wuchereria Bancrofti	198
<i>References</i>	200