

Contents

About the editors — VII

List of contributing authors — IX

Pooja Mittal, Ramit Kapoor and Rupesh K. Gautam

Chapter 1

Introduction of microbiology — 1

Namrata Malik

Chapter 2

Bacteriology — 11

Malay Kumar Sannigrahi, Deepika

Chapter 3

Virology — 51

Younis Ahmad Hajam, Rahul Datta, Sonika, Ajay Sharma, Rajesh Kumar,
Abhinay Thakur and Anil Kumar Sharma

Chapter 4

Parasitology — 93

Amit Kumar Singh

Chapter 5

Mycology — 149

Saloni Singh

Chapter 6

Microbial assay techniques — 177

Anil Kumar, Shailja Sankhyan, Abhishek Walia, Chayanika Putatunda,
Dharambir Kashyap, Ajay Sharma and Anil K Sharma

Chapter 7

Antimicrobial resistance: medical science facing a daunting challenge — 201

Nazia Tarannum, Ranjit Hawaldar

Chapter 8

Microbiology as an occupational hazard: risk and challenges — 229

Preeti Kumari Sharma, Paavan Singhal

Chapter 9

Medical waste management — 239

Index — 263