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ESSENTIALS OF BIOLOGY

In the current scenario and development of new course contents as laid down by regulatory bodies for Indian Universities for undergraduate and postgraduate students of botany, microbiology, biotechnology and biosciences, a basic need to cater the complete syllabus into one umbrella has laid down the foundation stone and blueprint of the present book entitled Essentials of Microbiology.

This book will extensively assist students, teachers and academicians to further extend their knowledge beyond the course work and related subject matter but onto the practical application to gain insights of what happening new in the present era of applied science.

CHAPTER 1 INTRODUCTION TO MICROBIOLOGY

- 1.1 Introduction
- 1.2 Microbiology and Microorganisms
- 1.3 Nature of Virus
- 1.4 Development of Virology
- 1.5 Classification of Living organisms
- 1.6 Classification of Viruses
- 1.7 History of Microbiology
- 1.8 Classification of Bacteria
- 1.9 History of Virology
- 1.10 Key Contributors of Microbiology
- 1.11 Bacterial Growth and Environmental Factors 3.8 Infra Red (IR) Moisture Balance
- 1.12 Microbiological Culture Methods Isolating
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- 1.15 Prokaryotic and Eukaryotic Cell Structure
- 1.16 Funai
- 1.17 Life Cycles of Fungi
- Sub-division Deuteromycotina (Fungi Imperfecti) 3.16 Hot Air Oven
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- 2.2 Lenses and Bending of Light
- 2.3 Optical or Light Microscope

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- 3.18 Boiling Or Distilling Range Apparatus
- 3.19 Congealing Temperature Apparatus
- 3.20 Gelometer
- 3.21 Refractometer
- 3.23 Total Organic Carbon (Toc) Analyzer
- 3.24 Karl Fischer Titration
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- 3.27 Spectrophotometry
- 3.28 Flame Photometry
- 3.29 Atomic Absorption Spectrophotometry (Aas)
- 3.30 Fluorescence Spectrophotometry
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