

Contents

<i>Preface to the Third Edition</i>	v
<i>Preface to the First Edition</i>	vii
<i>Acknowledgments</i>	ix
<i>Reviewers</i>	xi
<i>Special Features of the Book</i>	xiii
<i>Syllabus</i>	xvii

SECTION A APPLIED MICROBIOLOGY

CHAPTER 1	History of Microbiology in Nursing	3–24
CHAPTER 2	Classification of Microbes	25–32
CHAPTER 3	Bacterial Cell Structure and Reproduction.....	33–42
CHAPTER 4	Colonization of Microorganisms in the Body	43–46
CHAPTER 5	Growth and Nutrition of Microorganisms.....	47–54
CHAPTER 6	Body Fluids and Blood.....	55–61
CHAPTER 7	Laboratory Methods for Identification of Microorganisms.....	62–70
CHAPTER 8	Microscope and Microscopic Investigations	71–84
CHAPTER 9	Culture and Media Preparation	85–92

CHAPTER 10	Gram-Positive and Catalase Positive Cocci.....	93–99
	<i>Staphylococci</i>	
CHAPTER 11	Gram-Positive and Catalase Negative Cocci.....	100–110
	<i>Streptococci</i>	
CHAPTER 12	Gram-Negative Cocci.....	111–117
	<i>Neisseria Gonorrhoeae and Neisseria Meningitidis</i>	
CHAPTER 13	Gram-Positive Spore Forming Bacilli-I.....	118–131
	<i>Clostridium</i>	
CHAPTER 14	Gram-Positive Spore Forming Bacilli-II.....	132–136
	<i>Bacillus Anthracis</i>	
CHAPTER 15	Gram-Positive, Nonspore Forming, Nonmotile and Club Shaped Bacilli.....	137–143
	<i>Corynebacterium Diphtheriae</i>	
CHAPTER 16	Gram-Positive Intracellular Bacilli	144–160
	<i>Mycobacterium and Listeria</i>	
CHAPTER 17	Gram-Negative Comma Shaped Bacilli-I	161–165
	<i>Vibrio Cholerae</i>	
CHAPTER 18	Gram-Negative Bacilli-II	166–177
	<i>Pseudomonas Aeruginosa, Bordetella Pertussis, Campylobacter Jejuni, Helicobacter Pylori, Brucella Abortus</i>	
CHAPTER 19	Gram-Negative Bacilli-III	178–187
	<i>Salmonella Typhi, Klebsiella Pneumoniae, Haemophilus Influenzae</i>	
CHAPTER 20	Gram-Negative, Oxidase-Negative Bacilli.....	188–199
	<i>Escherichia Coli, Shigella Dysenteriae, Proteus Species</i>	
CHAPTER 21	Spirochaetes	200–207
	<i>Treponema Pallidum, Leptospira Icterohaemorrhagiae, Borrelia Burgdorferi</i>	
CHAPTER 22	Rickettsiae.....	208–214
	<i>Arthropod-Borne Pathogens</i>	
CHAPTER 23	Zoonotic Disease Causing Bacteria	215–222
	<i>Yersinia Pestis and Chlamydia Trachomatis</i>	

CHAPTER 24	Microbes Without Cell Wall <i>Mycoplasma and Ureaplasma</i>	223–229
CHAPTER 25	General Virology	230–240
CHAPTER 26	Polioviruses	241–244
CHAPTER 27	Viruses Responsible for Respiratory Infections	245–255
CHAPTER 28	Hepatitis Viruses	256–261
CHAPTER 29	Viruses Responsible for Sexually Transmitted Infection	262–266
CHAPTER 30	Zoonotic Viral Infections	267–270
CHAPTER 31	Viruses Causing Skin Infections	271–276
CHAPTER 32	Oncogenic Viruses	277–283
CHAPTER 33	Basics of Parasitology and Protozoan Parasites <i>Entamoeba and Plasmodium</i>	284–295
CHAPTER 34	Flagellated Protozoans <i>Giardia Lamblia, Trichomonas Vaginalis</i>	296–300
CHAPTER 35	Hemoflagellates <i>Leishmania and Trypanosoma</i>	301–309
CHAPTER 36	Helminths and Parasitic Infections in AIDS	310–336
CHAPTER 37	Vectors and Rodents	337–344
CHAPTER 38	Medical Mycology	345–363
CHAPTER 39	Immunity—Types and Classification	364–371
CHAPTER 40	Antigen-Antibody Reactions	372–388
CHAPTER 41	Hypersensitivity Reactions	389–397
CHAPTER 42	Vaccines and Immunoprophylaxis	398–406

SECTION B INFECTION CONTROL AND SAFETY

CHAPTER 43	Hospital-Acquired Infections.....	409–422
CHAPTER 44	Isolation Precautions and Use of Personal Protective Equipment	423–432
CHAPTER 45	Hand Hygiene.....	433–440
CHAPTER 46	Disinfection in Healthcare.....	441–448
CHAPTER 47	Sterilization in Healthcare.....	449–460
CHAPTER 48	Environmental and Equipment Cleaning— Spaulding Classification.....	461–472
CHAPTER 49	Specimen Collection	473–482
CHAPTER 50	Management of Biomedical Waste and Hospital Laundry.....	483–494
CHAPTER 51	Antibiotic Stewardship.....	495–499
CHAPTER 52	Patient Safety Indicators and Incidents in Healthcare Setting	500–523
CHAPTER 53	International Patient Safety Goals	524–531
CHAPTER 54	Safety Protocols	532–548
CHAPTER 55	Employee Safety Indicators.....	549–560
CHAPTER 56	Role of Nurses in Disaster Management—Triage.....	561–569
	<i>Index</i>	571–586