CONTENTS

1. Health Assessment 1
- Interview *1*
- Interview Technique *1*
- Observation *2*
- Observation Techniques *3*
- Health Assessment *4*
- Health History *4*
- Physical Examination *5*
- General Assessment *8*
- Documenting Physical Assessment Findings *10*
- Auscultation *10*
- General Assessment of Each Body System *10*
- Cranial Nerve Function *24*

2. The Nursing Process 27
- Definition and Meaning of Critical Thinking *27*
- Critical Thinking: Thinking and Learning *27*
- Nursing Process *29*
- Assessment *29*
- Nursing Diagnosis *30*
- Planning *30*
- Implementations *31*
- Rationale *31*
- Formulating the Nursing Care Plan *31*
- Evaluation *31*
- Nanda Nursing Diagnosis *32*

3. Nutritional Needs 37
- Introduction to Nutrition *37*
- Importance *37*
- Factors Affecting Nutritional Needs *38*
- Assessment of Nutritional Status *39*
- Review on Therapeutic Diets *40*
- Review: Special Diets—Solid, Liquid, Soft *40*
- Fluid or Liquid Diet *40*
- Dysphagia *43*
- Anorexia *44*
- Nausea and Vomiting *44*
- Vomiting *44*
- Meeting Nutritional Needs *46*
- Feeding a Helpless Patient *47*
- Enteral Feeding *47*
- Gastrostomy *50*
- Jejunostomy *51*
- Gastrostomy/Jejunostomy Tube Feeding *51*
- Total Parenteral Nutrition *52*

4. Hygiene 55
- Definition *55*
- Care of the Skin *55*
- Back Care *58*
- Decubitus Ulcer/Pressure Sore/Bedsore *60*
- Braden Scale *64*
- The Norton Pressure Sore *66*
- Performing Nail and Foot Care *67*
- Oral Hygiene for a Conscious Patient *68*
- Oral Care for an Unconscious Patient *69*
- Performing a Bed Shampoo/Hair Wash *71*
- Pediculosis *72*
- The Eyes, Ears and Nose *74*
- Perineal Care/Meatal Care *77*
- Handling Glasses *78*
- Care for Contact Lenses and Eyes *79*
- Care for Removable Dentures *80*
- Care and Maintenance of Hearing Aid *80*

5. Elimination Needs 81
- Urinary Elimination *81*
- Facilitating Urine Elimination *85*
- Providing Urinal *85*
- Providing Bedpan *85*
- Condom Drainage *86*
- Providing Genital Care/Hygienic Perineal Care *87*
- Catheterization of the Urinary Bladder *88*
- Care of Urinary Drainage *93*
- Removing an Indwelling Urinary Catheter *94*
- Urinary Diversions *95*
- Bladder Irrigation *96*
- Bowel Elimination *96*
- Alterations in Bowel Elimination *100*
- Collecting a Stool Specimen for Routine Examination *101*
- Passing a Flatus Tube *101*
- Enema *102*
- Suppository *104*
- Sitz Bath *105*
- Bowel Wash *106*
- Digital Evacuation of Feces *107*
- Colostomy *107*
- Care of Ostomies *109*
- Colostomy Irrigation *110*

6. Diagnostic Testing 113
- Diagnostic Test *113*
- Complete Blood Counts (HEMOGRAM) (Cell Counter) *114*
- Various Blood Components Measured Under Complete Blood Count *115*
- Serum Electrolytes *117*

- Liver Function Tests *121*
- LFTs to Assessment of Metabolic *122*
- Lipids/Lipoprotein Profile *124*
- Lipoproteins *125*
- Blood Glucose Technologies *126*
- Testing Procedures *128*
- Stool Examination *130*
- Physical Examination *131*
- Urine Test for Albumin *135*
- Test for Sugar in Urine *136*
- Urine Test for Acetone *136*
- Urine pH *136*
- Specific Gravity *137*
- Urine Culture *137*
- Collection of Urine Specimen *138*
- Nurse's Responsibility in Collecting Urine Specimen *139*
- Sputum Culture *139*
- Radiological Procedures *140*
- Diagnostic Radiology *140*
- Endoscopic Procedures *141*

7. Oxygenation Needs..... 142
- Review of Cardiovascular and Respiratory Physiology *142*
- Respiratory System (Physiology) *142*
- Factors Affecting Respiratory Functioning *143*
- Alterations in Respiratory Functioning *144*
- Alterations of Oxygenation *145*
- Nursing Interventions to Promote Oxygenation *145*
- Nebulization Therapy *146*
- Steam Inhalation *148*
- Maintenance of Patent Airway *150*
- Oxygen Administration *150*
- Methods of Oxygen Administration *151*
- Suctioning *153*
- Tracheostomy Suctioning *155*
- Chest Physiotherapy *156*
- Care of Clients with Chest Tubes *162*
- Pulse Oximetry *163*
- Restorative and Continuing Care *165*
- Breathing Exercises *167*
- Respiratory Exercises *167*
- Incentive Spirometry *169*

8. Fluid, Electrolyte, and Acid-Base Balances 171
- Review of Physiological Regulation of fluid, Electrolyte and Acid-Base Balances *171*
- Homeostasis: Mechanisms of Controlling Fluid and Electrolyte Movement *171*
- Acid and Base Disturbance *173*
- Factors Affecting Fluid, Electrolyte and Acid-Base Balances *175*
- Disturbances in Fluid Volume *178*
- Fluid Volume Excess *180*
- Electrolytes Regulation and Electrolyte Imbalances *182*
- Metabolic: Acidosis and Alkalosis *188*
- Respiratory: Acidosis and Alkalosis *191*
- Intravenous Infusion/Intravenous Therapy *193*
- Performing a Venipuncture *196*
- Complications of IV Fluid Therapy *197*
- Measuring Intake and Output (Fluid Intake) *198*
- Administering Blood and Blood Components *199*
- Restricting Fluid Intake *204*
- Enhancing Fluid Intake *205*

9. Administration of Medications 206
- Medication *206*
- Administration of Medication *206*
- Drugs Nomenclature *206*
- Effects of Drugs on the Body *207*
- Forms of Medications *209*
- Drug Preparations *209*
- Purposes of Medications *210*
- Pharmacodynamics and Pharmacokinetics *210*
- Drug Action *211*
- Factors Influencing Medication Action *212*
- Medication Orders and Prescriptions *213*
- Systems of Measurement *214*
- Medication Dose Calculation *216*
- General Principles for Administration of Medications *217*
- 10 Rights of Medication Administration *218*
- Errors in Medication Administration *219*
- Storage and Maintenance of Drugs *220*
- Terminologies *222*
- Abbreviations *223*
- Developmental Considerations in Medication Administration *224*
- Routes of Drug Administration *225*
- Oral Medication *226*
- Sublingual and Buccal Medication Administration *227*
- Administration of Parenteral Medications *228*
- Routes of Parenteral Therapies *228*
- Intramuscular Injection *230*
- Intravenous Injection *232*
- Intravenous Infusions *234*
- Venipuncture Site *234*
- Subcutaneous Injection *236*
- Intradermal Injection *238*
- Equipments *239*
- Infusion set *242*
- Types of Vials and Ampoules *243*
- Preparing Injectable Medicines from Vials and Ampoules *246*
- Care of Equipment: Decontamination and Disposal of Syringes, Needles, Infusion Sets *248*
- Prevention of Needlestick Injuries *248*
- Topical Administration *250*
- Application to Skin and Mucous Membrane *251*
- Direct Application of Liquids *252*

- Insertion of Drug into Body Cavity *252*
- Instillations—Ear, Eye, Nasal, Bladder and Rectal *254*
- Irrigations—Eye, Ear, Nasal, Rectal and Bladder *256*
- Spraying: Nose and Throat *260*
- Inhalations *261*
- Dry Inhalations *261*
- Moist Inhalations *261*
- Epidural Route *264*
- Intrathecal Administration *264*
- Intraosseous Route *265*
- Intraperitoneal Route *266*
- Intrapleural Route *267*
- Intra-arterial Route *267*

10. Sensory Needs..... 269
- Components of Sensory Experience *269*
- Arousal Mechanism *270*
- Factors Affecting the Sensory Function *270*
- Assessment of Sensory Alterations *271*
- Management *274*
- Unconsciousness *278*

11. Care of Terminally Ill, Death and Dying 281
- Concepts of Loss *281*
- Grief, Bereavement and Mourning *281*
- Types of Grief Responses *282*
- Types of Complicated Grief *283*
- Manifestations of Grief *283*
- Factors influencing Loss and Grief Responses *284*
- Theories of Grief and Loss—Kubler Ross *285*
- The R Process model (Rando's) *286*
- Death *287*
- Signs of Impending Death *287*
- Dying patient's Bill of Rights *288*
- Care of Dying Patient *288*
- Physiological Changes Occurring after Death *290*
- Dying Declaration *291*
- Death Certificate *291*
- Care of Dead Body *291*
- Autopsy *293*
- Embalming *296*
- Counseling and Supporting Grieving Relatives *299*
- Placing Body in the Mortuary *300*
- Releasing Body from the Mortuary *300*
- Ethical and Legal Issues in Death and Dying *301*
- Euthanasia *301*
- Organ Donation *302*

12. Psychosocial Needs: Self-concept 304
- Dimensions of Self-concept *305*
- Components of Self-concept *305*
- Factors that Affect Self-concept *307*
- Nursing Management *309*

13. Psychosocial Needs: Sexuality 311
- Meaning *311*
- Definition *311*
- Sexual Health *311*
- Sexual Orientation *314*
- Prevention of Unwanted Pregnancy *316*
- Avoiding Sexual Harassment and Abuse *317*
- Nursing Management *319*

14. Psychosocial Needs: Stress and Adaptation—Introductory Concepts..... 320
- Stress *320*
- Stressor *321*
- Sources/Causes of Stress *322*
- Effects of Stress *324*
- Indicators of Stress *325*
- Adaptation *325*
- Stress Adaptation *325*
- General Adaptation Syndrome *326*
- Local Adaptation Syndrome *327*
- Manifestations of Stress *328*
- Nursing Theory and Role of Stress *328*
- Factors Influencing Stress and Coping *328*
- Coping *329*
- Coping Strategies *330*
- Stress Management *330*
- Assist with Coping and Adaptation for Stress Management *332*
- Creating a Therapeutic Environment for Stress Management *332*
- Recreational and Diversional Therapies for Stress Management *333*

15. Psychosocial Needs: Concepts of Cultural Diversity and Spirituality 335
- Cultural Diversity *335*
- Providing Culturally Responsive Care *336*
- Spirituality *337*
- Concepts: Faith, Hope, Religion, Spirituality, Spiritual Wellbeing *337*
- Dealing with Spiritual Distress (Spiritual Care Interventions) *340*
- Nursing Management *340*
- The Five R's of Spiritual Care *341*

16. Nursing Theories: Introduction..... 342
- Models *343*
- Theories *343*
- Historical Perspective *343*
- Theory *344*
- Nursing Theories *345*

Index *359*