Contents

1. Research and Research Process **1**
- Nursing Research *1*
- Sources of Knowledge for Nursing Research *2*
- Need for Nursing Research *2*
- Objectives of Research *3*
- Characteristics of Research *3*
- Purpose of Nursing Research *3*
- Steps of Scientific Method *4*
- Research Process *5*
- Challenges in Conducting Research *12*
- Role of Nurses in Research *13*

2. Research Problem, Objectives, and Hypotheses **15**
- Definition of Research Problem *16*
- Research Objectives *20*
- Research Hypothesis *21*
- Variable *25*

3. The Review of Literature **27**
- Meaning and Concept of Review of Literature *27*
- Purposes of Review of Literature *28*
- Importance of Literature Review *28*
- Scope of Literature Review *29*
- Kinds of Literature to be Reviewed *29*
- Sources of Literature Review *29*
- Process of Reviewing the Literature *30*
- Steps of Literature Review *32*
- Guidelines for Critiquing the Literature Review *33*

4. Conceptual Framework **34**
- Terminologies *34*
- Framework *35*

5. Research Approaches and Designs: Quantitative Research Designs **41**
- Introduction and Definition *41*
- Dimensions of Quantitative Research Design *42*
- Characteristics of Quantitative Research Methodology *42*
- Classification of Quantitative Research Methodology *42*

6. Research Approaches and Designs: Qualitative Research Designs **57**
- Key Terms in Qualitative Research *57*
- Characteristics of Qualitative Research Design *58*
- Features of Qualitative Design *58*
- Main Types of Data Collection in Qualitative Studies *58*
- Phases of the Qualitative Research Design *59*
- Planning of Qualitative Design *59*
- Research Process in Qualitative Studies *59*
- Overview of Qualitative Research Traditions *60*

7. Population, Sample, and Sampling **70**
- Basic Sampling Concepts *70*
- Sample and Sampling *72*
- Classification of Sampling Techniques *72*
- Sample Size in Quantitative Studies *77*
- Sampling Plan in Quantitative Studies *79*
- Sampling in Qualitative Research *80*
- Sampling in Qualitative Designs *82*

8. Tool: Data Collection Methods and Instruments **85**
- Existing Data and Original Data *85*
- Data Collection in Quantitative Research *86*
- Questionnaires *86*
- Observation *90*
- Interview *93*
- Physiological Measurement *94*
- Data Collection in Qualitative Research *94*

9. Analysis of Data **97**
- Steps of Data Analysis *97*
- Data Compilation *97*
- Classification of Data *98*

- Tabulation *100*
- Hypothesis *102*

10. Introduction to Statistics 105
- Statistics *105*
- Biostatistics *106*
- Basic Terms Used in Statistics *106*
- Levels of Measurement *106*
- Descriptive Statistics *108*
- Inferential Statistics *122*
- Statistical Packages *130*

11. Research Report 136
- Definition *136*
- Characteristics of a Good Research Report *136*
- Guidelines for Writing a Research Report *137*
- Critiquing Quantitative Research *141*
- Evaluating Qualitative Research *142*

12. Communication/Dissemination of Research Findings 144
- Steps in Communication of the Findings of Research Study *144*
- Poster Presentation *146*
- Oral Research Presentation *147*
- Planning for Publication *147*

13. Utilization of Nursing Research 150
- Incorporation of Research in Practice—Why *150*
- Models for Translating Research into Practices *152*
- Research Update as a Part of Magnet Recognition *153*
- Elements of Research Utilization *153*
- Types of Research Utilization *153*
- Stages of Research Utilization *153*
- Steps in Research Utilization *154*
- Nurses' Role in Research Utilization *154*
- Barriers to Research Utilization *154*
- Promotion of Research Utilization *157*

14. Ethical Considerations in Nursing Research 159
- Role of a Nurse in Research *159*
- Common Terms Used in Ethical Consideration *160*
- Composition of Ethics Committee *162*
- Gaining Ethical Approval for Your Study from Institutional Ethics Committee *163*
- Ethical Considerations *165*

Multiple Choice Questions *167*

Index *185*