Contents

1. Introduction to Obstetrics **1**

Concepts of Midwifery and Obstetrics 1; Objectives of Midwifery Nursing 1; Trends in Midwifery and Obstetrical Nursing 1; Legal Aspects of Midwifery and Obstetrical Nursing 2; Ethical Aspects of Midwifery and Obstetrical Nursing 4; Preconception Care 5; Role of Nurse in Midwifery and Obstetrical Care 9; National Policy and Legislation in Relation to Maternal Health and Welfare 10; Maternal Mortality 10; Perinatal Mortality 13

2. Fetal Development **16**

Reproduction 16; Gametogenesis 20; Reproductive Cycle 21; Stages of Development of Ovarian Follicles 23; Structure of Mature Ovarian Follicle 24; Ovulation 24; Structure of Mature Gametes 25; Fetal Development Process 26; Placenta 31; Fetal Circulation 36; Fetal Membrane 40; Amniotic Fluid 40; Umbilical Cord 42; Female Pelvis 43; Fetal Skull 49; Examination Corner 54

3. Normal Pregnancy **58**

Hormones Produced During Pregnancy and their Effects 64; Diagnosing a Pregnancy 65; Phases of Pregnancy 67; Normal Signs of Pregnancy 69; Minor Disorders of Pregnancy 70; Preconceptional Counseling and Care 73; Antenatal Care 74; Assessment Methods for Fetal Well-being 82; Danger Signs of Pregnancy and Labor 84

4. Normal Labor **88**

Normal Labor 88; Causes of Onset of Labor 88; Activation of Fetal H–P–A Axis 89; True Pain versus False Pain 90; Physiology of Normal Labor 90; Factors Responsible for Normal Labor 91; Premonitory Signs of Labor 94; Stages of Labor and Clinical Events 94; Physiological Changes Occur During Labor 99; Pain in Labor 99; Nursing Management 101; Immediate Nursing Care of the Neonate 113; Complications of Labor 114

5. Normal Postpartum **119**

Puperium 119; Physiology of Lactation and its Management 125; Nursing Role During Postpartum Period 127; Nursing Management During Postnatal Period 131; Episiotomy Wound 135; Postnatal Exercise 136; Family Dynamics and Adaptation to Parenthood After Childbirth 137

6. Normal Newborn **141**

Newborn 141; Physiological Adaptation of Newborn Baby After Delivery 145; Nursing Management of Newborn Baby 149; Minor Disorders of Newborn and its Management 152; Levels of Neonatal Care 154

7. High-risk Pregnancy **157**

High-risk Pregnancy 157; Hemorrhagic Conditions in Early Pregnancy 160; Hydatidiform Mole or Molar Pregnancy/Vascular Mole 163; Hypertensive Disorders in Pregnancy 172; Hemorrhage in Late Pregnancy 182; Multiple Gestations—Twin Pregnancy 191; Hyperemesis Gravidarum 194; Disorders of Amniotic Fluids 195

8. Abnormal Labor **204**

Malpresentation and Malpositions 204; Occipito-posterior Position 205; Mechanism of Labor 206; Management of Labor 207; Breech Presentation 209; Face Presentation 217; Brow Presentation 221; Shoulder Presentation (Transverse or Oblique Lie) 222; Unstable Lie 225; Abnormal Uterine Contraction 226; Dysfunctional Labor 232; Abnormal Labor 233; Complications of Third Stage of Labor 240; Obstetric Emergency 249; Obstetrical Operations and Techniques 260

9. Postnatal Abnormalities **264**

Postpartum Hemorrhage 264; Puerperal Infections 270; Puerperal Sepsis and its Management 272; Puerperal Venous Thrombosis Disorders 273; Subinvolution of Uterus 275; Hematomas 275; Breast Complications and their Management During Puerperium 276; Mood Disorders During Postpartum Period 277; Common Postpartum Complaints and Management 279

10. High-risk Newborn **285**

High-risk Newborn 285; Preterm and Post-term Newborn 287; Intrauterine Growth Retadation 292; Asphyxia Neonatorum/Perinatal Asphyxia 295; Jaundice in Neonate 298; Hemolytic Diseases of Newborn 303; Infectious Diseases in Newborn 304; Inborn Error of Metabolism 306; Infant of Diabetic Mother 307; Birth Injury 308; Congenital Anomaly 311; Hypothermia in Newborn and its Prevention 320; Organization and Management of Neonatal Intensive Care Unit 322; Levels of Newborn Care 323

11. Pharmacotherapeutics in Obstetrics **327**

General Principles of Administration of Drugs in Pregnancy 327; Oxytocics Drugs Used in Obstetrics 327; Tocolytics Use in Obstetrics 332; Antihypertensive Drugs Used in Obstetrics 334; Teratogen Effect of Maternal Medications on Fetus and Neonates 335; Analgesia and Anesthetics Use in Obstetrics 337; Paraldehyde 339; Drugs to be Avoided During Pregnancy 340; Use of Drugs During Breastfeeding 341; Vaccination During Pregnancy 342

12. Family Welfare Program **344**

National Family Welfare Programs 344; Janani Shishu Suraksha Karyakaram 351; Women and Child Development 357; Organization and Administration of Family Welfare Program 358; Contraception and Methods of Contraception 362; Infertility 366; Vital Statistics 369; Record Keeping 371

13. Gynecological Disorders **374**

Vulval Infections 374; Vaginal Disorders 377; Genitourinary Fistula 379; Benign Diseases of the Cervix 381; Cervix Cancer 382; Benign Diseases of Uterus 384; Uterine Displacement 386; Uterine Fibroid 388; Endometriosis 390; Menstrual Disorders 392; Menopause 396; Congenital Anomalies of Female Genital Tract 399

Annexure ***405***

Bibliography ***407***

Index ***411***