Contents

Chapter 1: Female Genital Organs **1**
External Reproductive Organs 1
Vaginal Opening 2
Embryological Development 7
Lymphatic Drainage 10

Chapter 2: Menstruation, Ovulation, Fertilization and Implantation **15**
Menstrual Cycle 15

Chapter 3: The Fetus **24**
Fetal Circulation 26

Chapter 4: Development of Placenta **29**
Fetal Membranes 31
Umbilical Cord 34
Amniotic Fluid 35

Chapter 5: Types of Pelvis **36**
Gynecoid 36
Android 36
Anthropoid 37
Platypelloid 37

Chapter 6: Congenital Malformation of Female Genital Tract **39**
Congenital Anomalies of Vulva 39
Vagina 39
Failure of Canalization of the Müllerian Cords 41

Chapter 7: History Taking **43**
Gynecology 51

Chapter 8: Physical Examination **53**
General Appearance 54
Attitude 54
Gait 54

Nutrition 54
Height and Weight 54
Pulse 55
Systemic Examination 57
Obstetric Examination 59
First Grip: Fundal Grip (Grip-I) 62
Second Grip: Lateral Grip (Grip-II) 63
Third Grip: Pawlik's Grip (Grip-III) 63
Fourth Grip: Pelvic Grip (Grip-IV) 64
Auscultation of Fetal Heart 65
Vaginal Examination 66
Gynecological Examination 68

Chapter 9: Diagnosis of Pregnancy **76**
Symptoms of Pregnancy 76
Signs of Pregnancy 77
Ultrasonography 79
Summary of Symptoms and Signs of Pregnancy 81

Chapter 10: Examination and Observation in Labor **83**
Onset of Labor 83
Dilatation of Cervix 85
False Labor 85
Stages of Labor 85
Graph 87
Duration of Labor 89
History of Treatment Received Outside 89
Examination of the Patient 89
Obstetric Examination 89
Vaginal Examination 90
Diagnosis of Labor 96
Partogram 99
Clinical Examination 102

Chapter 11: Pelvic Assessment **105**
Cephalopelvic Disproportion 108

Chapter 12: Examination of Placenta and Lying in Period **110**
Examination of Placenta 111
Lying in Period 111
Lochia 113
Pulse and Temperature 113
Height of the Fundus 113

Examination of Lochia 114
Breast 115
Bladder Function 115
Examination of Vulva and Perineum 116
Postnatal Examination 116
General Health 116
General Examination 117
Systemic Examination 117
Pelvic Examination 117
Bimanual Examination 118

Chapter 13: Assessment of Fetal Well Being **119**
Fetal Movement in Intrauterine Life 119
Factors Affecting Intrauterine Fetal Activity 119
Clinical Assessment 121
Cardiotocography 123
Biparietal Diameter 125
Abdominal Circumference 125
Fetal Biophysical Profile 125
Electronic Fetal Monitoring 126
Non-stress Test 126
Contraction Stress Test 127
Amniocentesis 127
Assessment of Lung Maturity 127
Foam Stability Test (Shake Test) 127
Amniotic Fluid Bilirubin 127
Risk of Amniocentesis 128
Intrapartum Monitoring 128
Danger of Electronic Fetal Heart Monitoring and Fetal Scalp Blood Sampling 131

Chapter 14: The Newborn Immediately After Birth **132**
Basic Care of Newborn at Birth 132
Apgar Score 132
Palpation 134
Reflex 135

Chapter 15: Abnormal Presentation and Position **137**
Occipitoposterior Position 138
Face Presentation 142
Brow Presentation 144
Breech Presentation 145

Shoulder Presentation (Transverse Lie) 148
Compound Presentation 151

Chapter 16: Multiple Pregnancy **153**
Incidence 153
Placentation 153
Complications 154
Predisposing Factors 154
Diagnosis 155
Ultrasonography 155
Examination of Placenta 157

Chapter 17: Intrauterine Growth Restrictions **159**
Etiology 159
Diagnosis 160
Ultrasonography 161

Chapter 18: Intrauterine Fetal Death **162**
Causes 162
Diagnosis 163
Radiological Signs of Fetal Death 164
Ultrasonographic Signs 165

Chapter 19: Identification of High-Risk Pregnancy **166**
The Risk Factors and their Possible Effects 166
Physical Examination 168

Chapter 20: Examination of Lump Abdomen **170**
Investigation 172
Differential Diagnosis 173

Chapter 21: Menstrual Abnormality **176**
Examination of the Patient 178
Investigations 179

Chapter 22: Menopausal Problems **184**
Symptoms 184
Postmenopausal Bleeding 185

Chapter 23: Excessive Vaginal Discharge **187**
Bacterial Vaginosis 187

Chapter 24: Infertility **189**
History Taking 189
Age 189
Laboratory Investigations 191
Semen Analysis 193

Chapter 25: Genital Prolapse **195**
Cystocele 195
Rectocele 195
Uterine Prolapse 195
Enterocele 195
Classification 197
Symptoms 198
Examination of the Patient 199
Other Conditions which may Mimic Genital Prolapse 201

Chapter 26: Fibromyoma of Uterus **202**
Secondary Changes 203
Presenting Symptoms 205
On Examination 206

Chapter 27: Abnormalities of Urinary System **209**
Frequency of Micturition 209
Symptoms 209
Urinary Incontinence 209

Chapter 28: Pruritus Vulvae **213**
Dermatological Conditions 213

Chapter 29: Carcinoma Vulva **215**
Symptoms 215
On Examination 215
Staging 216

Chapter 30: Carcinoma Cervix **217**
Preinvasive Carcinoma of Cervix 217
Degree of Dysplasia/Cervical Intraepithelial Neoplasia 218
History 218
Invasive Carcinoma Cervix 220
Symptoms 220
On Examination 220
Differential Diagnosis 221

Investigations 222
Staging 222

Chapter 31: Examination of a Patient with Acute Abdomen **226**

Acute Abdomen During Pregnancy 226
Renal Causes 227
Obstetrical Causes 227
Diagnosis 229
Torsion of Ovarian Tumor 229
Uterine Fibromyoma 230
Gynecological Conditions 230
Endometriosis 232
History Taking 232
Chief Complaints 233
Physical Examination 233
Laparoscopy 234

Chapter 32: Investigative Procedures **235**

Examination of Blood 235
Investigations 235
Examination of Urine 236
Colposcopy 238
Cervical Biopsy 239
Other Diagnostic Procedures in Gynecology 240

Chapter 33: Radiology and Ultrasonography in Obstetrics and Gynecology **242**

Radiology 242
Hysterosalpingography 242
Ultrasonography in Obstetrics and Gynecology 243
Cervical Incompetence 248
USG in Gynecology 249
Computed Tomography 252
Magnetic Resonance Imaging 252

Index 253