



# Contents

Foreword Maj Gen SS Sharma  
Preface

v  
vii

## Section 1 FORENSIC MEDICINE: CLINICAL

<b>1. Definition of Forensic Medicine</b>	<b>2</b>
Forensic Medicine	2
Medical Jurisprudence	2
Ethics	2
<b>2. Legal Procedure</b>	<b>3-12</b>
Criminal Law	3
Civil Law	3
Civil Law is Guided by Civil Procedure Code (CPC)	3
Inquest	5
Summon	6
Conduct Money (Medical Officer's Fee)	7
Procedure of Examination of a Witness in a Court	7
Evidence	8
Witness	9
Torture	10
Physical Torture	11
Mental Torture	11
Sexual Torture	11
Principles of Treatment	12
<b>3. Medical Law and Ethics</b>	<b>13-30</b>
Medical Council of India	13
State Medical Councils	14
Professional Misconduct/Infamous Conduct	14
Code of Medical Ethics	15
Rights of a Doctor	16
Duties of a Doctor	16
Right of Patient	17
Duties of Patient	17
Medical Negligence	17
Some Important Negligence	20

Professional Secrecy and Privileged Communications	24
Condition in which Patient is Considered as Consumer	25
Condition in which Patient is not a Consumer	26
Advantages of CPA in Medical Services	26
Disadvantages of CPA in Medical Services	26
Impact of CPA-86 in Medical Community	26
ICMR Guidelines for Human Research, 1995	27
General Principles	27
Biomedical Waste Management	27
Euthanasia	28

#### **4. Identification** **31-55**

Data for Establishing Identity	31
--------------------------------	----

#### **5. Forensic Psychiatry** **56-64**

Introduction	56
Important Symptoms in Mental Illness	56
Law Relating Care and Treatment of Mentally Ill	59
Insanity and Responsibility	60
Criminal Responsibility in Some Special Situations	63

### **Section 2 FORENSIC MEDICINE: PATHOLOGY**

#### **6. Thanatology—Death, Organ Transplantation and Postmortem Changes** **66-86**

Introduction	66
Death	66
Brain Stem Death and Organ Transplantation	67
Mode, Manner and Cause of Death	69
Postmortem Changes	71
Biochemical Tests	85

#### **7. Medicolegal Autopsy** **87-94**

Introduction	87
Types of Autopsy	87
Aims and Objective	87
Codes and Protocol	87
Medicolegal Autopsy Report	88
Useful Data	94

#### **8. Legal Aspect of Injury** **95-97**

Introduction	95
Homicide	96

#### **9. Mechanical Injuries** **98-112**

Medicolegal Classification of Injuries	98
--	----

<b>10. Regional Injuries</b>	<b>113-123</b>
Head Injury	113
Scalp Injury	113
Skull Bone Injury	114
Intra-cranial Haemorrhage	117
Coup and Contrecoup Injury	119
Vertebral Column	121
Spinal Cord	121
<b>11. Firearm Injuries</b>	<b>124-135</b>
Introduction	124
Parts of Firearm	124
Classification of Firearms	125
Cartridge	126
Firearm Wounds	129
Shotgun Injury	131
<b>12. Injuries due to Heat, Electrocutation and Lightning</b>	<b>136-150</b>
Thermal Injuries	136
Burn	138
Electrical Injuries	144
Road Traffic Accident	148
<b>13. Anaesthetic and Operative Deaths</b>	<b>151-152</b>
Types of Anaesthesia	151
Causes of Anaesthetic Deaths	151
<b>14. Starvation Deaths</b>	<b>153-154</b>
Introduction	153
Signs and Symptoms of Starvation	153
<b>15. Violent Asphyxial Death</b>	<b>155-172</b>
Introduction	155
Anatomical Consideration	156
Classification of Mechanical Asphyxia	156
Mechanism of Drowning	166
Laboratory Diagnosis of Drowning	170

### Section 3 SEXUAL JURISPRUDENCE

<b>16. Impotence and Sterility</b>	<b>174-177</b>
Definition	174
Report of Impotency	175
Artificial Insemination	176
Assisted Reproduction	176

<b>17. <u>Virginity, Pregnancy and Delivery</u></b>	<b>178-186</b>
Definition 178	
Types of Hymen 179	
Pregnancy 180	
Delivery 184	
<b>18. <u>Abortion</u></b>	<b>187-192</b>
Abortion and Medical Termination of Pregnancy 187	
<b>19. <u>Infant Deaths</u></b>	<b>193-199</b>
Infanticide 193	
Questions in Infanticide 193	
Precipitate Labour 198	
Battered Baby/Caffey Syndrome/Non-accidental Injury of Childhood 199	
Cot Death/Crib Death/Sudden Infant Death Syndrome (SIDS) 199	
<b>20. <u>Sexual Offences</u></b>	<b>200-210</b>
Introduction 200	
Natural Sexual Offence 201	
Examination of the Victim of an Alleged Case of Rape 203	
Sodomy 208	
Buccal Coitus 208	
List of Common Paraphilias 209	

#### Section 4 FORENSIC SCIENCE

<b>21. <u>Trace Evidence</u></b>	<b>212-214</b>
Forensic Serology 212	
Blood/Blood Stain 212	
Medicolegal Importance of Blood 213	
Semen 213	

#### Section 5 TOXICOLOGY

<b>22. <u>General Toxicology</u></b>	<b>216-224</b>
Toxicology 216	
Forensic Toxicology 216	
Acts and Laws Relating to Poison 217	
Classification of Poison 217	
Action of Poison 218	
General Principles of Treatment 220	
Diagnosis of Poisoning 223	
Duties of a Doctor in Case of Suspected Poisoning 223	
<b>23. <u>Corrosive Poisons</u></b>	<b>225-231</b>
Classification 225	

<b>24. Irritant Poisons</b>	<b>232-245</b>
Irritants	232
Inorganic Irritant: Metallic Salts	232
Arsenic	232
Mercury	234
Organic Irritants: Vegetable	239
Organic Irritants: Animal	242
Ophitoxaemia	243
<b>25. Neurotoxic Poisons</b>	<b>246-260</b>
Opium	246
Barbiturates	248
Chloral Hydrate	249
Deliriant Poison	250
Inebriant Poison	254
Spinal Poison	258
<b>26. Cardiac Poisons</b>	<b>261-264</b>
Yellow Oleander or <i>Cerbera thevetia</i>	261
White Oleander or <i>Nerium odorum</i>	261
Aconite ( <i>Mitha Zahar, Beesh</i> )	262
Digitalis	263
Hydrocyanic (HCN) Acid and Salt (KCN)	263
<b>27. Asphyxiant Poisons</b>	<b>265-266</b>
Carbon Monoxide, Carbon Dioxide and Hydrogen Sulphide	265
Carbon Dioxide	266
Hydrogen Sulphide	266
<b>28. Miscellaneous</b>	<b>267-274</b>
Food Poisoning	267
Insecticides	268
Substance Dependence and Abuse	270
Radioactivity	272
Paracetamol (Acetaminophen)	273
Tranquillisers (Chlorpromazine, Diazepam and Valium)	273
<b>29. Fatal Dose and Fatal Period of Poisons</b>	<b>275-280</b>

## Section 6 PRACTICAL

<b>30. Examination and Determination of Sex from Bones</b>	<b>282-291</b>
Skeletal Remains Practical: Examination of Sex from Bone	282
Skull	283
Mandible	286
Sacrum	290

<b>31. Determination of Age: Eruption of Teeth</b>	<b>292-294</b>
Age Estimation 292	
Determination of Age 294	
<b>32. Determination of Age: X-ray</b>	<b>295-299</b>
Determining of Age 295	
<b>33. Model, Photograph and Specimen</b>	<b>300-318</b>
Model and Photographs 300	
Identification 300	
Injury 304	
Asphyxial Death 313	
<b>34. Weapon</b>	<b>319-331</b>
Introduction and Basics 319	
Weapons Commonly Found in Practical Examination 322	
Hard Blunt Weapon 322	
Moderately Heavy Sharp Cutting Weapon 327	
Heavy Sharp Cutting Weapon 328	
<b>35. Certificates</b>	<b>332-348</b>
<b><i>Bibliography</i></b>	<b>349</b>
<b><i>Index</i></b>	<b>351-358</b>