

## **Exam Topics in Forensic Medicine for the Medicine program**

1. Subject of Forensic Medicine. Forensic Pathology. Subject of Toxicology.
2. Legal systems. Differences of Legal Systems.
3. The doctor in court. The behavior of a doctor in court.
4. Medical reports and statements. Forensic Documentation.
5. Medical Aspects of Death. The nature and definition of death.
6. Criteria for diagnosing brain-stem death. Tissue and organ transplantation.
7. Death certification.
8. Medico-legal investigation of death. The autopsy. Exhumation.
9. Changes after death. The early and later changes after death.
10. Rigor mortis.
11. Post-mortem hypostasis.
12. Cooling of the body after death.
13. The estimation of the time of death.
14. Post-mortem decomposition. Putrefaction.
15. Mummification. Adipocere.
16. Post-mortem changes in bodies immersed in water or buried.
17. Skeletalisation. Post-mortem injuries.
18. Mechanical Asphyxia. Classification of Asphyxias.
19. Intravital picture of asphyxia. Stages of asphyxia.
20. Post-mortem picture of asphyxia.
21. Choking. Aspiration.
22. Pressure on the neck. Mechanisms. Vagal inhibition or reflex cardiac arrest.
23. Manual strangulation – throttling.
24. Ligature strangulation. The sexual asphyxias.
25. Hanging.
26. Compression or Traumatic asphyxia.
27. Immersion. Signs of immersion. Death in water.
28. Drowning. Laboratory tests for drowning.
29. The Wounds. Wounding, injury and trauma. Duty of the doctor in wounding cases.
30. The examination of wounds. Medical reports on wounding. The law and wounding.

31. Classification of wounds. Blunt and sharp injuries.
32. Abrasions. Bruises. Lacerations.
33. Incised wounds: slashed and stab wounds.
34. Stab wounds. The force required to cause a stab wound.
35. Punching. Bite marks. Kicking.
36. Defence injuries. Survival and activity after wounding.
37. Regional injuries. Head injuries. Scalp injuries.
38. Skull fractures. Intracranial hemorrhages.
39. Brain damage. Spinal injuries.
40. Chest injuries. Abdominal injuries.
41. Neck injuries.
42. Firearm and Explosive Injuries.
43. Types of firearms. Firearm ammunition. Shot-guns. Rifled weapons.
44. Wound from smooth-bore guns and rifled weapons. Gun-shots.
45. Entrance wounds. Exit wounds. Canal of the wound.
46. Distance of shooting. The additional factors of shooting.
47. Accident, suicide and murder. The doctor's duty in firearm injuries and death.
48. Transportation Injuries.
49. Road traffic injuries.
50. Pedestrians. Car occupants. The function of seat-belts.
51. Motor cycle and cycle injuries.
52. The medical examination of road traffic accidents.
53. Railway injuries.
54. Aircraft fatalities. Water transportation injuries.
55. Mass disasters and the doctor.
56. Effects of injury.
57. Injury due to heat. Scalds. Burning.
58. The examination of bodies recovered from fires. Causes of death in burns. Injuries on burned bodies.
59. Cold injury. Hypothermia. The signs of hypothermia.
60. Electrical injury. The electrical lesion. Death from lightning.
61. Injuries due to extreme pressure. Acute and chronic lesions due to radiation.
62. Neglect and starvation.

63. Physical abuse of human rights. Torture. Features of physical abuse.
64. Death and Injury in Infancy. The doctor's duty in the examination of the death in infancy.
65. Still-births. The estimation of maturity of a new-born baby or fetus. Infanticide.
66. Child abuse syndrome. Child sexual abuse.
67. Sudden Infant Death Syndrome (SIDS).
68. Death from natural causes. Causes of unexpected and sudden death.
69. Types of abnormal mental condition. Mental disease and criminal responsibility.
70. The effect of drink or drugs on responsibility. Testamentary capacity.
71. Sexual Offences. Types of Sexual Offence. Rape.
72. Indecent assault. Indecent exposure and indecency with children.
73. Incest. Bestiality. Homosexual offences.
74. The genuineness of allegations of sexual assault. The doctor's duty in the examination of sexual offences.
75. Pregnancy. Artificial insemination and *in-vitro* fertilization.
76. Abortion. Criminal abortion. The doctor's actions in respect of illegal abortions.
77. Legal termination of pregnancy. Consent to termination of pregnancy.
78. Identification of the Living and Dead. Methods for Identification.
79. Fingerprints.
80. Identity from teeth. Tattoos.
81. Identity of decomposed or skeletalised remains. Facial reconstruction from skulls.
82. Blood stains. Tests for blood. Species specificity.
83. The individuality of blood. The inheritance of blood groups.
84. Identification from hairs, bone, teeth and other human remnants.
85. Identification by DNA profiling.
86. Poisoning. General aspects of poisoning.
87. The toxic and fatal dose. Tolerance and idiosyncrasy.
88. The doctor's duty in suspected poisoning. The collection and storage of samples for toxicological analysis. Samples required for toxicological analysis.
89. Alcohol. Absorption and elimination of alcohol. The measurement and effects of alcohol.
90. Drugs of dependence and abuse. Tolerance, dependence and withdrawal symptoms. Solvent abuse.
91. Medical poisons.
92. Corrosive and metallic poisons.
93. Agro-chemical poisons. Gaseous poisons. Miscellaneous poisons.

94. The Ethics of Medical Practice. Duties of physicians in general.
95. Duties of physicians to the sick. Duties of physicians to each other.
96. Medical ethics in practice. Medical confidentiality.
97. Consent to medical treatment. Informed consent.
98. Medical negligence. Types of medical negligence.
99. Systems of compensation. Compensation and damages.
100. General errors. Professional misconduct. The General Medical Council.