

# SAMPLE QUESTION PAPERS FOR MD

## Some sample Question Papers

**(Paper-1): Basic Sciences as applied to Forensic Medicine**

**[Paper-II]: Forensic Medicine Including Other Clinical Subjects as Applied to Forensic Medicine**

**[Paper-III]: Forensic Toxicology and Medical Jurisprudence**

**[Paper-IV]: Forensic Pathology Including Forensic Immunology and recent advances**

**MD (Forensic Medicine)**

### **Basic Sciences as applied to Forensic Medicine**

#### **(Paper-1)**

**Time: 3 Hours**

**M.M.: 100**

**Note: Attempt all questions.**

1. A bundle of bones is sent to you for Medico legal examination. How will you examine? Give your opinion regarding possible medico legal questions.

(10+25=35)

2. Discuss how you can establish a Poison information center in your institution.

(35)

3. Write short notes on :

a. Air embolism.

(3x10=30)

b. Comments on PNDT Act.

c. Section 320 IPC.

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**Note: Attempt all questions.**

1. Discuss etiology and Pathology of 'Sudden Infant Death Syndrome'. 35
  2. Discuss the modern trends of Law relating to medical practice with special reference to 'Consumers Protection Act'. 35
  3. Write briefly on :
    - a. Pre-Natal Sex determination and Feticide. 15
    - b. Haptoglobins. 15
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**Note: Attempt all questions.**

1. Discuss the Morbid anatomy of intracranial Hemorrhages. Tabulate the differences between pathological Hemorrhages?  
[25+10=35]
  2. Give a brief account of the examination of biological samples encountered in the medico legal practice? [35]
  3. Write short notes on : [10x3=30]
    - a. Forensic anatomy of the human Pelvis.
    - b. Pathophysiology of Rigor Mortis.
    - c. Metabolism of Ethanol and Methanol Poisoning.
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**Note: Attempt all the questions.**

- I. Describe the anatomy of female genitalia. Enumerate the samples required to be preserved from different parts of female genitalia in

- case of a rape. {30}
- II. Describe the Pathophysiology of shock. {30}
- III. Write short notes on:
- a) Fat embolism
  - b) Brain death
  - c) Forensic Radiology {14,13,13}
- 

## Some Other Questions

1. Describe blood supply and venous drainage to heart. Signs in MI.
  2. Forensic anatomy of skull.
  3. Physiology of Muscle contraction & rigor mortis.
  4. Microscopic identification of sex.
  5. Death in injury to neck.
  6. Ewing's postulates.
  7. Fetal circulation.
  8. Forensic examination in case of death from cervical region.
  9. Blood and Blood stains – Medico-Legal Importance
  10. Age changes in pubic symphysis.
  11. Patho Physiology of Asphyxia.
  12. Patho Physiology of hypovolemic shock.
  13. Circle of Willis.
  14. Healing of wound and age of wound.
  15. Dissection of neck and blood vessels and Histo-pathological examination.
  16. Determination of sex from Skeletal Structures.
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## MD (Forensic Medicine)

### Forensic Medicine Including Other Clinical Subjects as Applied to Forensic Medicine

[Paper-II]

**Time: 3 Hours**

**M.M.: 100**

**Note: Attempt all questions.**

1. Describe various types of lesions seen in head injuries. Discuss mechanism of their production.  

(35)
2. Define medical negligence. How will you proceed to investigate death on operation table?  

(35)
3. Write short notes on: (30)
  - a. Management of Mass disaster.
  - b. Age of subdural Hematoma.
  - c. Brain mapping.

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**Note: Attempt all questions.**

1. What do you mean by Peri-operative death? What caution would you exercise before during and after the conduction of autopsy in such a case?  

[35]
2. Describe various mechanisms involved in death by compression of neck. How would you account for death in Judicial Hanging? (35)
3. Write short notes on : {30}

- a. A L I test.
  - b. Sexual harassment.
  - c. Demonstration of Diatoms.
- 

**Note: Attempt all questions.**

- 1. Discuss the data on which the approximate time since death may be determined in medico legal cases and mention the factors that influence such estimation. [34]
  - 2. Describe the guideline for examination death associated with Surgery and Anesthesia. [33]
  - 3. Write short notes on: [33]
    - a. Medico legal questions in relation to burns.
    - b. Consent to Medical treatment.
    - c. Preservation of Tissue/Material for DNA analysis.
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Note: Attempt all questions.

- I. Discuss the role of 'Forensic Expert in case of 'Exchange of Babies' in a hospital. {30}
  - II. What is the present concept of Torture Medicine? Discuss the merits and demerits of Video-recording of medicolegal postmortems. {30}
  - III. Write short notes on:
    - a) Medicolegal aspects of Feticide {14}
    - b) Narcoanalysis {13}
    - c) Criminal responsibility of an 'Insane' {13}
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# Some Other Questions

1. Examination of a victim of Rape.
2. Therapeutic Misadventure.
3. Radiology in various fields of forensic medicine.
4. Drunkard Exam Hypothetical report. How will you calculate the approx amount of alcohol consumed?
5. Artificial insemination.
6. SIDS, Discuss theories of its causation, findings & MLC.
7. Asphyxia.
8. Elementary ballistic principles. How do they help in detection of examine.
9. Legal aspect of insanity & drawbacks.
10. Custodial Rape in India & abroad.
11. Artifacts in ML Cases – influence of artifact in MLC Interpretations.
12. Brain stem death & clinical diagnosis.
13. Discuss medico legal aspects of medical treatment including iatrogenic disease and industrial hazards.
14. Vaginismus.
15. Inter sex M/L importance with reference to criminal.
16. Medicolegal importance of Ultra Sound and CT scan.
17. Medico-legal importance of skeletal injuries.
18. Discuss the role of Forensic Medicine in service community at large. How will you organize a clinical forensic medicine service unit in your hospital?
19. Virology, M/L Aspect of AIDS diagnostic procedure.
20. Impulsive disorders – reference to criminal psychiatry.
21. Physical torture/sexual tattoos.
22. Law in emergency care.
23. Rash and negligent act
24. Concealed injury
25. Battered baby
26. Berry aneurysm
27. Cloning.
28. Classify firearm & bullet injuries.

MD (Forensic Medicine)

## Forensic Toxicology and Medical Jurisprudence

[Paper-III]

Time: 3 Hours

M.M.: 100

**Note: Attempt all questions.**

1. What do you understand by 'Hooch Tragedy'? Describe the signs and symptoms, fatal dose and period, postmortem finding and method of sending Viscera and treatment of poisoning by 'Wood Alcohol'. (35)
  2. Discuss the question of Ethical and Medical negligence during the practice of Medical profession. (35)
  3. Writes notes on : (15+15)
    - a. Section 53 of CrPC.
    - b. Donation of Cornea.
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**Note: Attempt all questions.**

1. What is Ideal homicidal poison? Describe the signs symptoms treatment postmortem findings and medico legal aspect of Aconite poisoning. [35]
2. What is doctrine of Informed Consent? Discuss the significance & relevance of Consent citing various provisions in law in various medical & medico legal situations. [35]
3. Write notes on : [15]
  - a. Drugs & Cosmetic Act.

b. Pre-Natal diagnosis technique act.

[15]

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Note: Attempt all questions.

Discuss mechanism of action, clinical features and management of Chronic Thallium Poisoning. For what reason, Thallium is considered to be an ideal homicidal Poison? {25+5}

Discuss the concept of Informed Consent and its components. Describe changes in the law in relation to 'consent'.

{20+10}

Write short notes on:

- a) Sec. 304-A of IPC. {14}
- b) Clinical features of 'Paraquat' poisoning. {13}
- C) 'The Set' and "the setting' in context with Drug Abuse. {13}

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## Some Other Questions

1. Management, treatment & MLC aspects in mass casualty following spurious liquor consumption in Community.
2. Modern poisoning centre.

3. Classify insecticides/Organo Phosphorus Compounds.
  4. Acute cyanide poisoning.
  5. Vicarious liability.
  6. Medical negligence – types – safeguards to prevent.
  7. Therapeutic misadventure.
  8. Professional negligence civil health.
  9. Methylene poisoning.
  10. Plumbism
  11. Fish poisoning.
  12. MCI.
  13. AIDS.
  14. Human experiments –State medicine.
  15. Poison.
  16. NDPS Act.
  17. Mushroom Poisoning.
  18. What is malpraxis? Describe the precautionary measures which you would recommend against malpraxis to generate medical practitioners in our country.
  19. Strychnine poisoning.
  20. Differential Diagnosis of dilated and constricted pupil.
  21. Law of HTPS + PNDT.
  22. Professional Misconduct.
  23. Methylene poisoning, S/S, Medico-Legal Importance
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## MD (Forensic Medicine)

### Forensic Pathology Including Forensic Immunology and recent advances

#### [Paper-IV]

Time: 3 Hours

M.M.: 100

**Note: Attempt all questions.**

1. Discuss the patho-Physiology of formation of 'Emboli'. How will you demonstrate air embolism and Fat embolism during autopsy? {34}
  2. Discuss the salient features of 'Human Organ Transplantation Act' and loopholes in it. What are your views about swapping of organs? {33}
  3. Write short notes on : {33}
    - a. Water boarding.
    - b. HLA system.
    - c. DNA typing and courts.
- 

**Note: Attempt all questions.**

1. Discuss in detail pathophysiology of Burns. Discuss various factors which influence prognosis of Burns injuries. {34}
  2. What are Trace Evidences? How will you establish identity of an individual from trace evidences? {33}
  3. Write short notes on: {33}
    - a. Ethical & Legal issues in relation to AIDS.
    - b. Medicine hypnosis & its medico-legal aspects.
    - c. Polygraph.
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Note: Attempt all questions.

- I. Discuss DNA- Fingerprinting and its application in the practice of Forensic Medicine. {30}
- II. Discuss Medico-legal aspects of sex determination, sex reassignment and sex conversion surgery. {30}

- III. Write short notes on :
- a) Surrogate motherhood its medico-legal aspects.
  - b) Postmortem artifacts.
  - c) Medico-legal aspects of AIDS

{13,13,14}

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1. Discuss the pathology of 'Coronary Heart Disease' and discuss its medicolegal importance in sudden death. [34]
  2. Discuss the Forensic application of Immunology. [33]
  3. Write short notes on: [33]
    - a. Brain Mapping.
    - b. Date Rape drugs.
    - c. Pre-natal Sex determination.
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## Some Other Questions

1. Medico Legal aspect in burns.
2. Consent to medical treatment.
3. Tissue/material preservation for DNA Analysis.
4. Immuno biology :-
  - a. Traffic accidents current studies.
  - b. Sexual offences.
  - c. Paternity problems.
5. Discuss data on which approximate time since death may be determined in ML cases & mention the factors that influence such estimation.
6. Discuss to substantiate that applied aspects of Forensic Pathology & Odontology have much to help the system of Penology, law & order and to assure justice.

7. Enumerate causes of unexpected sudden death. Discuss in detail unexpected sudden death of iatrogenic origin.
8. Discuss scope, Limitation & significance of amylase estimation in forensic investigation of body fluids.
9. Discuss Medico Legal aspects of sex determination sex reassignment & sex conversion surgery.
10. Medico-Legal aspects of Human organ transplantation.
11. Discuss the scope of study of Entomology of cadaver in determination of time since death. Quote recent famous cases where this technique proved of significant value.
12. Neonatal cold injury.
13. Grouping of stains form body fluids.
14. Discuss ML applications of DNA finger Printing. Also discuss the probative value of this evidence.
15. Renting of Womb.
16. De addiction centers.
  
17. Discuss M/L aspects of AIDS with emphasis on latest rulings of Supreme Court relating to the rights & disabilities of HIV +ve patients.
18. Discuss Histo pathological findings & ML aspects of Hypertrophy obstructive cardio myopathy.
19. Shock.
20. FAT/Air embolism
21. Mismatched blood transfusion.
22. HLA.
23. Euthanasia.
24. Time since death.
25. PM interval.
26. Post traumatic embolism.
27. Guide lines for death in surgery, transfusion.
28. What are various information one can derive from teeth in a living individual?