

FORENSIC MEDICINE

PAPER – I

Time : 3 hours
Max. Marks : 100

FRM/D/10/09/I

**Attempt all questions in order.
Each question carries 10 marks.**

1. In which part of the brain would you expect intracranial hypertensive hemorrhage to occur most commonly and why? Describe in brief the Forensic neuropathology of intracranial hypertensive hemorrhage.
2. How would you define positional asphyxia? Give its classification. Explain each sub type giving main characteristics of each.
3. What do you understand by Rape Kit? As a Forensic Pathologist, how would you investigate a case of rape and sexual assault?
4. What is Battered Spouse Syndrome? Give its psychopathological and legal aspects.
5. How can histology be helpful in the practice of Forensic Pathology? Discuss with examples.
6. What is Marfan's Syndrome? What are the usual lethal mechanisms in this disorder? How would you determine that a sudden death has occurred as a result of Marfan's Syndrome? What are the conditions / activities which exacerbate underlying pathological features of Marfan's Syndrome?
7. What are the classical signs of asphyxia? Describe their pathogenic mechanism.
8. What is an immunoassay? Enumerate and discuss some major Forensic applications of immunoassay.
9. Define hypothermia. What are the various physiological responses at various temperatures? What are the various pathological lesions encountered in a case of hypothermia?
10. What are primary impact injuries, secondary impact injuries and secondary injuries? Explain with help of diagrams.

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PAPER – II

FRM/D/10/09/II

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
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1. What is Post Traumatic Stress Disorder (PTSD)? Briefly describe the main characteristic features of PTSD?
2. Define intersex and mention its types.
3. What is Gustaffson's method? Enumerate various changes used in this formula.
4. What is dactylography? Mention its types. How would you determine the age of a fingerprint?
5. Write short note on anthropometry and its relevance to identification of an individual.
6. How viscera are preserved during post mortem examination for chemical analysis?
7. Define adipocere. Describe its medico-legal importance.
8. What is sexual asphyxia? How is it produced?
9. What is Café coronary? Discuss its medico-legal significance.
10. What is false virgin? How will you examine such a case?

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PAPER – III

Time : 3 hours
Max. Marks : 100

FRM/D/10/09/III

**Attempt all questions in order.
Each question carries 10 marks.**

1. Explain the concept of "Vicarious Liability". Comment on its application in criminal cases and civil suits.
2. Discuss about drug dependence and abuse. State the differences between drug addiction and drug habituation.
3. State the common modes of action of antidotes. Write a note on chelating agents.
4. Classify barbiturates. State the signs, symptoms and treatment of barbiturate poisoning.
5. Discuss the signs, symptoms and treatment of methyl alcohol poisoning.
6. Describe signs, symptoms, post mortem appearances and treatment of a case of poisoning by sulphuric acid.
7. Define the doctrine of "Res ipsa loquitur". State conditions satisfying this doctrine. Give examples.
8. Comment on ethical and legal issues in blood transfusion. Discuss the hazards of blood transfusion.
9. Describe signs, symptoms, autopsy findings and treatment of methyl isocyanate poisoning.
10. Describe the clinical features and treatment of plumbism.

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PAPER – IV

Time : 3 hours
Max. Marks : 100

FRM/D/10/09/IV

**Attempt all questions in order.
Each question carries 10 marks**

1. Define scar. How will you estimate the age of scars?
2. Define infanticide. What are the acts of omission or deliberate neglect?
3. What is mummification? What are the factors necessary for mummification? Describe its medico-legal importance.
4. Define contusions. How will you estimate the age of a bruise?
5. Define exhumation. Describe the procedure followed in exhumation in India.
6. Describe the anatomy of female genital system. What is its relevance to our understanding of sexual assault findings?
7. Describe the morphology of alveolar type I and type II cells. What is its relevance to fetal maturity?
8. Describe hypersensitivity. What is its relation to penicillin anaphylaxis?
9. Describe the anatomy of middle ear. What relevance it has in Forensic Medicine?
10. Describe the examination of conduction system of heart and its forensic importance.