

**FORENSIC MEDICINE**  
**PAPER-IV**

FRM/D/17/09/IV

Time : 3 hours  
Max. Marks :100

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space
- Answer all the parts of a single question together.
- Start the question to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. Discuss the postmortem biochemistry of Cerebrospinal fluid and vitreous humour and their application in forensic medicine. 5+5
2. What are the principles and limitations of immunoassay? Enumerate the importance of immunoassay in forensic practice. 5+5
3. a. What is limited autopsy? 4+4+2  
b. Virtual autopsy.  
c. Waiving off the legal autopsy.
4. What is Commotio Cordis? Describe postmortem examination of conduction system of heart and its forensic importance 4+6
5. Define Exhumation. Describe the procedure followed in exhumation in India. 2+8
6. a. Odd and even rule in fire arm wounds. 3+3+4  
b. Magic bullet.  
c. Theory related to JF Kennedy firearm missile death.
7. a. Meadow's dictum in infanticide. 3+3+4  
b. Sudden infant death syndrome.  
c. Indian penal code related with criminal abortion.
8. What is Doping? Discuss the role of drugs in sports. What is the legal aspect of drugs use in sports as per World Anti-Doping Agency (WADA)? 3+3+4
9. a. Superfecundition 3+4+3  
b. Surrogate mother and law in India  
c. Postmortem retrieval of sperm and Law for its use.
10. a. Write about organ & tissue retrieval from brain dead & dead human beings for therapeutic transplantation. 5+5  
b. How the cornea is preserved in Eye banks after removal from corpse?

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