

**FORENSIC MEDICINE**

**PAPER-I**

Time: 3 hours  
Max. Marks: 100

FRM/D/19/09/I

**Important Instructions:**

- 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 answer 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 transformation of symphysis pubis with age. What are the changes seen in 50 to 60-year-old female? 5+5
2. Define Forensic Taphonomy. Discuss its utility for calculating time since death. 5+5
3. Enumerate various research methodologies relevant to medical research. Prepare a research protocol for any research on Forensic. 5+5
4. Use of HLA system with its clinicolegal implication to organ transplantation. 5+5
5. Discuss role of Biochemistry in Forensic sciences. How will you estimate time since death from various body fluids? 4+6
6. Describe neck structures specific to mechanical asphyxia deaths with the help of labelled diagram(s). 10
7. a) Thermoregulatory system. 5+5  
b) Histological dating of thrombus.
8. Discuss the role of Forensic Entomology in crime scene examination. Which species of insect is most useful for Tropical climate? 5+5
9. a) Hellen's law. 5+5  
b) Superfecundation.
10. a) Precipitin test. 5+5  
b) Sudden unexpected nocturnal death syndrome.

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