

**FORENSIC MEDICINE**

**PAPER-I**

FRM/D/18/09/I

Time: 3 hours  
Max. Marks:100

**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:**

- Draw and label the diagram representing coronary arteries. 5+1+4
  - Which coronary artery is known as Widow maker?
  - Describe the finding in a case of sudden cardiac death due to acute coronary insufficiency.
- Define forensic anthropology 1+3+2+4
  - How will you estimate stature of an individual from skeleton?
  - What are the indicators of child birth in skeleton?
  - What are the criteria for sex attribution in the adult skull?
- Define and classify mechanical Injuries. 2+8
  - Define and describe characteristic features of
    - Self-inflicted wound
    - Defense wound
    - Offence wound
    - Therapeutic wound
- Define cerebral concussion. 2+8
  - Enumerate and describe types of skull fractures and their mechanisms.
- Define, describe and critically analyze Audio Forensics. 10
- Global development in Forensic Geology with its relevance in investigation of Homicides and Sexual violence. 10
- Describe forensic bite mark analysis, its methodology, medico legal significance and evidential value. 2.5x4

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| 8.  | Describe Brain Fingerprinting test, its scientific principles, various types of probes for conducting it, its value as an aid to crime investigation and evidential value for prosecution. | 2x5   |
| 9.  | Define Forensic Entomology. Enumerate different species of Arthropods of importance, its importance and utility in crime investigation.  | 2+8   |
| 10. | a) Define Forensic Microbiology.<br>b) What are its applications?<br>c) Write a short note on bioterrorism.  | 2+4+4 |

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