

FORENSIC MEDICINE**PAPER-IV**

Time: 3 hours

FRM/D/20/09/IV

Max. Marks:100

Important Instructions:

- You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.
- Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.
- No additional supplementary answer sheet booklet will be provided.
- 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. a) Define forensic nursing. 3+(4+3)
b) Why is forensic nursing essential and what are the challenges related to its practice?
2. a) What is the latest criteria for declaration of brainstem death? 4+6
b) Compare and contrast it with Harvard criteria, Philadelphia and Minnesota protocols.
3. a) Define sudden death. 2+8
b) Practice of molecular autopsy in approach to sudden death cases.
4. a) Principles and limitations of immunoassay. 5+5
b) What is the importance of immunoassay in forensic practice?
5. Ethical and psychological implications related to uterine transplantation. 5 +5
6. a) Describe the various branches in digital forensics. 5+5
b) Admissibility of electronic evidence in Courts.
7. Explain with hypothetical charts the dental notations of adults and children in: 2+2+2+2+2
a) Zsigmondy system
b) Palmer notations
c) Cunningham's notations
d) Navy notation
e) Hader up notation
8. a) What are theories related to Sudden Unexpected Death in Infants (SUDI)? 4+6
b) How to approach a case of SUDI during autopsy?
9. a) What is minimal invasive autopsy? 3+7
b) Application of minimal invasive autopsy in relation to death from COVID-19.

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10. a) Recent advances in forensic reconstruction of face featuring its merits and demerits. 5+5
b) Uses of nanotechnology in Forensic Medicine.

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