

**FORENSIC MEDICINE**

**PAPER-I**

Time: 3 hours  
Max. Marks:100

FRM/D/20/09/I

**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. What is contusion? Describe the pathophysiology of contusion and its stages of healing with colour changes. 3+(3+4)
2. Discuss the various causes of death due to fatal pressure on neck. Describe features of homicidal hanging. 7+3
3. Describe the pathophysiological mechanisms of cerebral oedema. What is the mechanism for cerebral swelling? Indicate the relationship of blunt trauma to the phenomenon of cerebral swelling. 10
4. What is forensic toxicology? Describe about the qualitative research in analytical forensic toxicology. 5+5
5. What are the basic elements of Hippocratic Oath? Discuss the key amendments reflected in the newly revised Hippocratic Oath. 5+5
6. Describe role of DNA profile and its application in medico legal practice. What are the fallacies of DNA report? 6+4
7. What is virtual autopsy? Describe in details about its merits and demerits in investigation of a case. 5+5
8. What is COVID-19? Discuss in details whether the COVID-19 disease, can spread the infection through deceased body. 5+5

**P.T.O.**

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| 9.  | Discuss the advantages & disadvantages of an autopsy by a board of doctors. Describe various related law and circumstances in which a medical board is constituted. | 5+5 |
| 10. | Classify bombs and explosives. Discuss the injuries caused by them.   | 5+5 |

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