

QP Code: 101106

Reg. No.:.....

**PG Degree Supplementary Examinations in Forensic Medicine and
Toxicology (M.D) April 2026
Paper I – Basic Medical Sciences**

Time: 3 hrs

Max marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay: (20)

1. There was an aircraft crash which led to the death of approximately 180 occupants. There was massive fire and most of the victims were in a charred state. Being the forensic surgeon in the locality you were summoned to the location for the emergency service.
 - a) Describe the procedure of investigating and identifying the individuals (remains) including the steps to be taken during post-mortem examination
 - b) Add a note on the preservation of the remains (15+5)

Short essays: (8x10=80)

2.
 - a) Define and classify shock.
 - b) Describe the pathophysiology of anaphylactic shock.
 - c) List and describe the different samples to be collected and the tests to diagnose anaphylactic shock as the cause of death after a thorough post-mortem examination. (3+3+4)
3.
 - a) Describe the anatomy of neck and its structures. Add a note on dissection of neck.
 - b) add a note on air-embolism in neck injuries. (5+5)
4. Explain HELLP syndrome. What are the post-mortem findings seen in such a case
5.
 - a) Explain aortic dissection. Describe the different types of aortic dissection.
 - b) Explain the various situations and its forensic relevance. (5+5)
6. Enumerate the hazards associated with blood transfusion. Describe the autopsy procedure with evidence collection in case of death due to mismatched blood transfusion.
7.
 - a) Describe in detail the blood supply to the brain.
 - b) Intra-cranial haemorrhage, its types, and its medico legal importance. (4+6)
8.
 - a) Describe fracture healing.
 - b) Enumerate and describe the different types of skull fractures along with a note on the mechanism causing it. (5+5)
9.
 - a) Discuss about the various post-mortem samples for microbiological investigations in a fever-related death.
 - b) Add a note on the method of collection of the post-mortem samples for microbiological investigations. (5+5)
