

**FORENSIC MEDICINE**

PAPER-III

FRM/D/18/09/III

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:**

1. a) Define Vitriolage. 1+5+4  
b) Describe IPC 326A and 326B as per Criminal Law Amendment 2013 for Voluntary Acid Throwing.  
c) What are the duties and responsibilities of a Hospital when they receive a victim of Vitriolage?
  
2. a) Enumerate the different analytical techniques for detection and estimation of poisons in body. 4+2+2+2  
b) Write short notes on:
  - i. UV Spectrometry
  - ii. Gas Chromatography
  - iii. Immunoassay
  
3. Describe mechanism of action, toxicokinetics, signs, symptoms, management and autopsy findings in cases of methanol poisoning. 10
  
4. a) Define and describe Joule Burn, its mechanism of occurrence, naked eye and microscopic findings and medicolegal aspects. 5+5  
b) Describe Lightning injuries and its autopsy appearance with respect to:
  - i. Clothes
  - ii. Endogenous burns
  - iii. Exogenous burns
  - iv. Internal findings
  
5. a) Define an incised wound. Describe its causes, characteristics & medico legal importance. 6+4  
b) How will you differentiate between a suicidal and homicidal cut throat?

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6. a) Describe the different species of cannabis, its active principle, mechanism of action, various preparations with their respective potency, signs, symptoms and medico legal aspect. 7+3  
b) Write a brief note on legalization of cannabis uses in few countries and your opinion on its justification.
7. a) Enumerate the poisons which can be diagnosed with its odour. 4+2+2+2  
b) Enumerate the poisons which can be diagnosed by the colour of Post mortem Lividity.  
c) Enumerate the poisons that constrict the pupil.  
d) Enumerate the poisons that dilate the pupil.
8. a) Which gases are responsible for air pollution? 2+8  
b) Diagnosis, management, autopsy appearance and medico legal aspect of carbon monoxide poisoning.
9. a) Describe the process of determining the age of wound by observing the stage and extent of healing. 3+3+4  
b) Describe histopathological changes to determine time since wound.  
c) How age of wound can be estimated by Enzyme Histochemistry?
10. a) What are the effects of distance of fire on firearm wounds? 2+2+2+2+2  
b) How will you determine the ranges of fire from the muzzle to targets in following range?  
i. Contact fire  
ii. Near contact  
iii. Intermediate range  
iv. Distant range