

**FORENSIC MEDICINE**

PAPER – III

FRM/D/16/09/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. How histopathology of lungs help in diagnosis of drowning: 2+2+2+2+2
  - a) Fresh water drowning
  - b) Salt water drowning
  - c) Immersion syndrome
  - d) Dry drowning
  - e) Secondary drowning
2. Mechanism of action, toxicokinetics, signs & symptoms, management and PM findings in a case of carbon dioxide poisoning. 2+2+2+2+2
3. How would you date subdural hematoma on the basis of gross and histopathology? 5+5
4. Mechanism of action, toxicokinetics, signs & symptoms, management and PM findings in a case of formaldehyde poisoning. 2+2+2+2+2
5.
  - a) Give the mechanism of action of nitrites and nitrates as well as that of its antidote - methylene blue. 6+4
  - b) Explain why methylene blue treats methemoglobinemia in low doses, but produces methemoglobinemia in high doses.
6.
  - a) Pathology of renal trauma. 4+(3+3)
  - b) What is Pascal's law and how it explains renal injuries?
7.
  - a) Signs and symptoms of acute and chronic thallium poisoning. 4+6
  - b) How would you manage such a case? Give only the relevant PM findings.
8. Pathophysiology, signs & symptoms and medicolegal importance of hymenoptera stings. 2+3+5

**P.T.O.**

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9. Write down in relation to metabolism of ethanol, why excess alcohol causes: 2+2+2+2+2
- a) Hypoglycaemia
  - b) Over weight
  - c) Liver damage
  - d) Alcohol dependence
  - e) Classify alcohol dependence
- 10 Classify war gases. Give the major sign and symptoms and treatment of each class. 3+7

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