

Third Professional MBBS Part I Degree Supplementary Examinations
April 2026
Forensic Medicine and Toxicology
(2019 Scheme)

Time: 3 Hours

Total 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

1. Multiple Choice Questions**(20x1=20)**

The **MCQ** questions (Q.No. i to Q.No. xx) shall be answered **only in the OMR sheet provided at page No. 51** of the answer book (the inner portion of the back cover page (PART III)). Responses for MCQs marked in any other part/page of the answer book will not be valued. **For marking the correct responses use X mark only**

Question numbers i-v are case scenario- based questions

A 24 year old girl, married one year back, was admitted with burns affecting right upper limb, both lower limbs, whole of front of trunk and back of chest. During history taking she disclosed that her husband forces her to inflict pain on him by whipping with belt during sexual act. There were multiple linear cuts seen on front of left wrist. Judicial magistrate has arrived for recording the dying declaration.

- i. The duty of the doctor in the ward while recording the dying declaration by magistrate is
 - a) To assist the magistrate
 - b) To prevent presence of relatives
 - c) To certify *compos mentis*
 - d) To act as a witness
- ii. Whether the burns present on body is fatal or not can be estimated using the rule of
 - a) Hasse
 - b) Wallace
 - c) Thumb
 - d) Ashley
- iii. Identify the paraphilia described by the girl
 - a) Masochism
 - b) Sadism
 - c) Frotteurism
 - d) Eonism
- iv. The medico legal significance of the injury on left wrist is that it is indicative of
 - a) Accident
 - b) Suicidal attempt
 - c) Homicidal burns
 - d) Restraintment
- v. The following statement regarding dying declaration is **TRUE**
 - a) Magistrate can ask leading questions
 - b) Statement is recorded after administering oath
 - c) Lawyer of opposite party can be present and can ask questions
 - d) It is accepted as evidence in case of death of the victim

For questions vi - x, there are two statements marked as Assertion (A) and Reason (R). Mark your answers as per the options provided:

- a) Both A and R are true, and R is the correct explanation of A
 - b) Both A and R are true, but R is not the correct explanation of A
 - c) A is true, but R is false
 - d) A is false, but R is true
- vi. **Assertion (A):** During Exhumation, soil is preserved.
Reason (R): Postmortem imbibition of metallic poison like Arsenic can occur.
 - vii. **Assertion (A):** Cadaveric spasm is postmortem in nature.
Reason (R): It is due to Adreno-cortical exhaustion.
 - viii. **Assertion (A):** A persistent fine white lathery froth in mouth and nostrils is characteristics of ante mortem drowning.
Reason (R): When the person is unconscious at the time of drowning water enters lungs and results oedema aquosum
 - ix. **Assertion (A):** Rape is defined under section 63 BNS.
Reason (R): Potency is mandatory to prove the commission of rape.
 - x. **Assertion (A):** Chop wound is caused by heavy sharp weapon.
Reason (R): Heavy sharp weapon causes crushing of hair bulbs and contused margins.

Question numbers xi-xv are multiple-response type questions. Read the statements & mark the correct answers appropriately.

- xi. Which of the following tests done to detect semen
 - 1) Takayama test
 - 2) Teichmann test
 - 3) Barberio test
 - 4) Florence test
 - a) 1 and 2 are correct
 - b) 3 and 4 are correct
 - c) 1, 2 and 3 are correct
 - d) 2, 3, and 4 are correct
- xii. In case of sea water drowning, which of the following abnormalities are noted:
 - 1) Hypernatremia
 - 2) Hypokalemia
 - 3) Hemoconcentration.
 - 4) Hyponatremia
 - a) 1 and 2 are correct
 - b) 3 and 4 are correct
 - c) 1, 2 and 3 are correct
 - d) 2, 3, and 4 are correct

- xiii. Female skull brought by the police was analysed in the Forensic department. To consider this as female skull bone which feature should be present:
 1) Square orbits 2) Prominent frontal and parietal eminence 3) Narrow mastoid
 4) Small, smooth glabella
 a) 1 and 2 are correct b) 3 and 4 are correct c) 1, 2 and 3 are correct d) 2, 3, and 4 are correct
- xiv. Which of the following statements are correct regarding recording of evidence in a court of law
 1) Oath is mandatory even if the doctor is an aethiest
 2) when doctor is declared as hostile witness, public prosecutor can cross examine them
 3) Judge can ask questions after cross examination
 4) Leading questions are permitted in chief examination
 a) 1 and 2 are correct b) 3 and 4 are correct c) 1, 2 and 3 are correct d) 2, 3, and 4 are correct
- xv. The following are features of a respired lung
 1) Weight is 1/70 of body weight 2) Margins appeared rounded
 3) Soft and spongy consistency 4) Marbled appearance and floats in water
 a) 1 and 2 are correct b) 3 and 4 are correct c) 1, 2 and 3 are correct d) 2, 3, and 4 are correct

Question numbers xvi-xx are single-response type questions.

- xvi. Treatment of choice for Paracetamol poisoning is _____
 a) Flumazenil b) Naloxone c) Aspirin d) N-Acetyl Cysteine
- xvii. Death due to negligence is dealt under section _____ of BNS
 a) 106 b) 115 c) 304 d) 370
- xviii. Police Inquest is dealt under section _____ of BNSS
 a) 91 b) 164 c) 174 d) 194
- xix. Ossification center is seen in calcaneum at-----months of intra uterine age
 a) 2 b) 5 c) 7 d) 9
- xx. Name the type of torture method used as repeated slapping of both ears by open hand of torturer
 a) Falanga b) Buzzer c) Tele fono d) Quirofano

Long Essays:

(2x10=20)

2. A 42-year-old man admitted with history of sudden onset of abdominal pain, profuse dark colored watery diarrhea and vomiting following consumption of water from local well, having metallic taste. He also complains of excessive fatigue and tingling of hands. Laboratory investigation of blood revealed anaemia and urine showed elevated heavy metal.
 a) Identify the poisonous material stating reasons.
 b) Explain how it can be differentiated from a similar natural disease.
 c) Discuss briefly its management and preventive measures.
 d) Describe the manifestations of chronic poisoning with this. (2+2+3+3)
3. A 25-year-old female was brought to casualty with bleeding per vagina. As per history she was treated by an un registered abortionist and resulted bleeding.
 a) List the medico legal duties of the doctor in this case.
 b) Briefly describe the methods used for criminal abortion.
 c) Discuss the complications associated with this condition.
 d) Write a note on the amendments in the MTP Act 1971 in the amendment Act 2021. (2+3+3+2)

Short Essays:

(6x6=36)

4. Describe DNA Fingerprinting technology. Mention its uses.
 5. Describe different types of delusions. Add a note on its medico legal importance.
 6. Differentiate between hanging and ligature strangulation.
 7. Describe the signs and symptoms of Datura poisoning. Add a note on its medico legal importance.
 8. During autopsy, the dead body appeared stiff and buff of hair was found firmly held in right hand. Explain the mechanisms and medico legal significance of both observations.
 9. Describe the terms 'Professional negligence' and Professional misconduct'. Explain the procedure of enquiry of a case of 'Professional misconduct'.

Short Answers:

(6x4=24)

10. Describe the rules of informed consent for a surgical procedure.
 11. Briefly describe Vicarious liability.
 12. Describe positional asphyxia. Add a note on its medico legal importance.
 13. Describe the primary impact injuries in a pedestrian with diagrams.
 14. Describe various criminal courts in India with their powers.
 15. Discuss the first line management of snakebite.
