

15/25

The West Bengal University of Health Sciences
MBBS 3rd Professional P-I Examination (New Regulation) June, 2025

Subject: Forensic Medicine & Toxicology

Full Marks: 100

Time: 3 hours

Attempt all questions. The figures in the margin indicate full marks.

1. a) A dead body of a 25 year old woman with extensive burn injuries over whole body was brought for autopsy. As per enquiry report she tried to commit suicide on the day of her 3rd marriage anniversary owing to marital disharmony. She was treated in the hospital for seven days prior to her death. In relation to the above case, 1+1+3+5+5
- i. Define inquest.
 - ii. Name the type of inquest to be conducted in such a case.
 - iii. Discuss the role of Wallace Rule of 9 in relation to the management of burn patients.
 - iv. Discuss the various causes of deaths in burn patients.
 - v. What are the salient postmortem findings in the above case?
- b) A young lady aged 30 years found lying dead in the morning at her workplace with ligature mark in the neck, abrasions and bruises over different areas of body. Her clothes were found to be disorganized. Describe the importance of scene of crime. Discuss briefly the procedure of autopsy and what are the exhibits to be collected, preserved and follow chain of custody. 4+6+5
2. Answer the following:
- a) What is Summon? Discuss in brief the steps of recording of evidence in the court of law. 2+8
 - b) A bundle of bones have been recovered from a construction site and brought to you for examination. How will you proceed to examine and give an opinion? What are the samples you will preserve and why? What is Locard's exchange principle? 5+3+2
 - c) What is latent fingerprint? How would you develop them? What is Poroscopy? 2+5+3
3. Write short notes on: 2x5
- a) Principles of bioethics
 - b) Surrogate mother
4. Explain the following statements: 5x4
- a) Sutural fracture is a misnomer.
 - b) Saturated solution of common salt cannot be used in preservation of viscera in all cases.
 - c) Copper sulphate can be used in the treatment of phosphorus poisoning but not vice versa.
 - d) Incised wound over the forearm may not be a grievous hurt.
 - e) Illusion is not a sign of insanity.

5. Choose the correct answer for each of the following: 10x1
- i. Earliest sign of IUFD is:
a) Ducl's halo sign b) Spalding sign c) Robert sign d) Crowding of ribs
- ii. The first sign of putrefaction is:
a) Swelling of face and neck b) Greenish discoloration of right iliac region
c) Marbling of skin d) Abdominal swelling
- iii. Cobra poison is:
a) Myotoxic b) Cardiotoxic c) Neurotoxic d) Haematotoxic
- iv. Which of the following injury may result in "lucid interval?"
a) Extra-dural hemorrhage b) Subdural hemorrhage
c) Sub-arachnoid hemorrhage d) Contusion of brain stem
- v. The commonest cause of sexual impotence in a male is:
a) Congenital anomaly b) Hypothyroidism c) Type II DM d) Psychogenic
- vi. The commonest site of rupture of hymen in a virgin is:
a) Anterior b) Posterior c) Antero-lateral d) Postero-lateral
- vii. Ligature mark in case of hanging is an example of:
a) Pressure abrasion b) Graze abrasion c) Scratch abrasion d) Impact abrasion
- viii. Age of giving consent to undergo cholecystectomy is:
a) 12 years b) 18 years c) 14 years d) 15 years
- ix. The luminescence of semen in UV light is contributed by a secretion from:
a) Prostate b) Seminal vesicles c) Epididymis d) Testes
- x. The most important enzyme which is responsible for decomposition is:
a) Hyaluronidase b) Metalloproteinase c) Lecithinase d) Collagenase