

FORENSIC MEDICINE

PAPER – I

Time : 3 hours
Max. Marks : 100

FRM/D/12/09/I

Attempt all questions in order.
Each question carries 10 marks.

1. What is Human Organ Transplantation Act, 1994? What are various amendments in it? Define brain stem death and its certification as per the Act. 3+3+4
2. What is immunoassay? Enumerate and discuss the important forensic applications of immunoassay. 2+8
3. What are the types of asphyxial deaths? What is the difference between partial hanging and complete hanging? Discuss its medico-legal importance. 4+3+3
4. What is wound histochemistry? How you will determine the age of a wound medico-legal purpose? 4+6
5. Define decomposition. What are the various stages of decomposition? What is the medico-legal importance of decomposition? 2+4+4
6. Discuss in brief about postmortem biochemistry of CSF and its application in the practice of Forensic Medicine. 10
7. What is DNA test? What are the fallacies of this test? What precautions will you take while collecting samples for this test? 3+3+4
8. What is grievous hurt? Define a dangerous weapon as per law. 5+5
9. How will you fix the parentage of two newborn infants, who have been accidentally intermixed in the hospital? 10
10. What are coupe, counter coupe and whiplash injuries? Enumerate the various types of intracranial bleedings, their causes and medico-legal importance. 3+7

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PAPER – II

Time : 3 hours
Max. Marks : 100

FRM/D/12/09/II

Attempt all questions in order.
Each question carries 10 marks.

1. Discuss in brief about the methods of photosuperimposition technique for identification. What is its value? 8+2
2. What is the procedure of discharge of a mentally ill patient from a psychiatric hospital? 10
3. Discuss the civil responsibilities of mentally ill patients. 10
4. Discuss in brief about assessment of age in males from pubic symphysis, using Todd's method, modified by McKern and Stewart. 10
5. Define delusion. What are the different types of delusions? Mention its medicolegal importance. 2+5+3
6. Write a brief note on the injuries resulting on permanent total disablement, as described in Workmen Compensation Act, 1923. 10
7. Write short notes on: 5+5
 - a) State Medical Councils
 - b) Medical Council of India
8. Define consent. What are the different types of consents? What is the importance of consent in medical practice? 2+4+4
9. Write a short about the 'finger nail abrasions' seen in various types of assault. 10
10. What is feigned insanity? How will a doctor differentiate between true and feigned insanity & give his opinion. 3+7

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PAPER – III

Time : 3 hours

FRM/D/12/09/III

Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

1. What is substance abuse? Discuss in brief about dependency syndrome. 3+7
2. Write in brief about the causes and importance of 'smell of alcohol' on breath. 5+5
3. Discuss in brief about the ethical guidelines for bio-medical research on human subjects, laid down by ICMR. 10
4. What is the legal position of 'Right to die' in India? Discuss in relation with Aruna Shanbaug case. 5+5
5. Discuss in detail legal and ethical aspects of artificial reproductive techniques (ART). 5+5
6. Define torture. What are the common methods of torture and their manifestations? 2+8
7. What is the mechanism of acetaminophen toxicity? Briefly mention its management. 5+5
8. What are the features of Ethylene Glycol poisoning? 10
9. Discuss in detail the investigation of drug related deaths. 10
10. Discuss the role of drugs in sports. Discuss the latest law in relation to it. What are the ethical aspects of drug use in sports? 5+3+2

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PAPER – IV

Time : 3 hours
Max. Marks : 100

FRM/D/12/09/IV

Attempt all questions in order.
Each question carries 10 marks.

1. What are the three fundamental steps involved in analysis of biological tissue for toxicological purpose. 10
2. Describe the physiology of peristalsis. How does it help in determination of time since death? 5+5
3. Discuss the biochemistry of glucose and NPN. How does it help in determining time since death? 3+3+4
4. How can histology be helpful in the practice of Forensic Medicine? Discuss with illustration. 10
5. Discuss in detail the anatomy of thyrohyoid complex. Draw a labeled diagram. How does its knowledge help us in investigating cases of neck trauma? 4+2+4
6. What are Sheehan's hemorrhages? Give their significance in Forensic Medicine. 4+6
7. Discuss the pathophysiology of embolism. How many types of embolism are encountered in Forensic practice? Discuss briefly each. 4+6
8. Discuss the physiopathology of starvation. How will you co-relate post mortem findings with its physiopathology? 5+5
9. Discuss physiology of pregnancy. How does it help in determination of gestation period? 5+5
10. Discuss the use of radiology in detection of crime. 10
