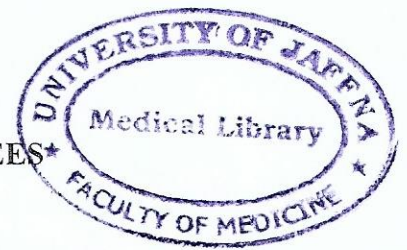




UNIVERSITY OF JAFFNA, SRI LANKA
SECOND EXAMINATION FOR MEDICAL DEGREES
PART I (1ST) 2016/2017
FORENSIC MEDICINE-PAPER II



Date: 29.11.2021

Time: 9.00 am to 12.00 pm (3 hours)

Answer all Five questions

Answer each **part** in a separate answer book.

PART A

1. A 58-year-old businessman found death on road, outside the pub on Sunday morning. He was a known person with diabetes, ischemic heart disease and hypertension. He was twice previously punished by the courts for substance abuse related issues. A small laceration was noted on the back of the head, and a few abrasions were noted on the limbs. The relative of the deceased strongly suspects foul play.
 - 1.1 List the medico-legal issues related to this case (20 marks)
 - 1.2. Discuss how you will approach this case and solve the above-mentioned medico legal issues. (80 marks)

2. A 15-year-old girl was found alone at a bus stand in an early morning at 4 am. The police officers brought her to hospital and she gave the history of sexual abuse by two unknown drug addicts on the previous day night. Alcohol smell was noticed on her breath and there was a genital tear with excessive bleeding which needed immediate medical intervention.
 - 2.1. List the medico-legal issues in this case (10 marks)
 - 2.2. The emergency physician contacts you and seeks your advice. Briefly describe the details that you would concentrate on advising the emergency physician regarding consent for the surgery. (15 marks)
 - 2.3. You are called at midnight before the surgery for the initial medico-legal assessment. Describe the steps that you would follow. (25 marks)
 - 2.4. The alleged assailants were produced to you on next day by the police. Discuss how you would proceed with the medico-legal examination (30 marks)
 - 2.5. It was found that her parents were separated, and she was living with her grandma. Briefly discuss the measures that you would take to ensure the safety of the child before the discharge from the hospital. (20 marks)

PART B

3. Discuss how you would thoroughly describe and evaluate firearm injuries at autopsy

(100 marks)

4.

4.1. Discuss the circumstances, toxic substance, clinical features and post mortem diagnosis of Datura (Aththana/ Oomaththai) poisoning.

(50marks)

4.2. Discuss the circumstances, toxic substance, clinical features and post mortem diagnosis of Gloriosa superba (NIyagala/ Karthigai poo) poisoning.

(50marks)

PART C

5. A 58-year-old female travel reporter was suffering from lower back pain for 6 years. It was kept under control with non-invasive, conventional care. Subsequently, her ability to walk was hampered by the severe weakening of her spinal discs, which also made it difficult for her to regulate her bladder.

She consulted a neurosurgeon, for his opinion. The neurosurgeon recommended the patient to have three intervertebral discs removed during an elective lumbar surgical operation as a solution to the issue of lumbar disc protrusion.

There was a 1%-2% unavoidable risk of developing 'cauda equina syndrome', a serious neurological damage as a result of the surgery. The surgeon did not inform this risk to the patient. The patient reluctantly agreed to the operation. Three days after her consultation with the surgeon the operation was performed. She sustained 'cauda equina syndrome' following surgery.

5.1 Outline the major ethical principle violated by the Neurosurgeon in this case.

(10 marks)

5.2. State the five basic elements that should be followed when this ethical principle is applied in routine hospital practice.

(10 marks)

5.3 Outline three other ethical principles involved in this case.

(15 marks)



She complained to the Ministry of Health about the incident and decided to sue the Neurosurgeon at the District Court for damages suffered by her.

5.4 Define the most likely offence committed by the Neurosurgeon in this case. **(5 marks)**

5.5 Describe how you would establish it in this case. **(15 marks)**

5.6. State the possible defenses that could be submitted by the Neurosurgeon to justify his action. **(10 marks)**

She has also complained to Sri Lanka Medical Council (SLMC) alleging that the action of the Neurosurgeon amounts to serious professional misconduct.

5.7. Explain how SLMC describes 'serious professional misconduct' and whether the patient's complaint is justifiable. **(20 marks)**

5.8. Outline how SLMC would investigate the complaint made by the patient against the Neurosurgeon. **(15 marks)**

