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## FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA, GALLE

# Third Examination for Medical Degrees Part II - September 2011

### **FORENSIC MEDICINE - PAPER 1**

Answer ALL FIVE Questions.

Answer each PART in a SEPARATE BOOK.

9.00 am to 12.00 noon (3 hours)

#### Part A

- 1. An adult male was found dead by the side of the road. There was an injury on the left temporal region of the head, which looks like a firearm injury.
  - 1.1 List five possible causes of death.

(20 marks)

1.2 Describe the crime scene visit examination of this incident.

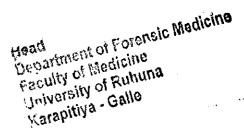
(40 marks)

1.3 Describe how you would determine the possible circumstances of death at the postmortem examination. (40 marks)

#### Part B

- 2. A 15 year-old girl is brought to you for medico-legal examination. She has eloped with her boy friend 6 days ago and found on the day prior to the examination by you. A woman police constable is accompanying her but her parents are not available. Police wants to produce her to the magistrate for medico-legal purposes and wants you to carry out a medico-legal examination.
  - 2.1 Describe briefly the issues related to 'consent' in examining this patient. (20 marks)
  - 2.2 Police also wants to know whether she has been 'raped'. Describe how you would handle this request with regard to professional secrecy. (40 marks)
  - 2.3 Describe briefly about 'privileged communication' with regard to this case scenario.

(40 marks)



#### Part C

- A male body was recovered by the police in a deserted house with sharp force injuries to head and neck area. Multiple blood stains were observed on the walls and the floor of the room.
  - 3.1 List the medico-legal issues that should be considered by the JMO during the post-mortem examination.

    (30 marks)
  - 3.2 Describe the possible blood stain patterns you would expect to see at the scene with their interpretation. (70 marks)

#### Part D

- 4. 4.1 List eight pathological states that can mimic alcohol intoxication. (40 marks)
  - 4.2 Describe how you would ascertain whether a driver is under the influence of alcohol.

    (60 marks)

#### Part E

- 5. A 40 year-old farmer was found unconscious near a paddy field. An empty bottle with paraquat label was found nearby. He died 15 days later in the hospital.
  - 5.1 List five clinical manifestations of paraquat poisoning.

(20 marks)

5.2 Describe the postmortem findings you would expect in this case.

(40 marks)

5.3 Describe the collection, storage and dispatch of necessary samples in this case.

(40 marks)