Original

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

POSTGRADUATE DIPLOMA IN LEGAL MEDICINE EXAMINATION
OCTOBER 2014

Date :- 13th October 2014 **Time :-** 1.00 p.m. – 4.00 p.m.

Answer **all** questions.
Write each part in a separate book.
Commence each answer on a separate page.

PART A

1. Critically analyse the system of 'disposal of death' (both with and without inquest) currently practised in Sri Lanka. (100 marks)

2. Discuss the **circumstances, causes** and **mechanisms** of death**, special dissection techniques** used in autopsy and **investigations**, when death is caused by trauma to the neck. (100 marks)

3. Discuss the significance of the different appearances of the following organs in female children, who are alleged to have been sexually abused.

   3.1. Genitalia (70 marks)

   3.2. Anus (30 marks)

4. A partially burnt body of a man is found in an open area. An elderly man claims that the remains are of his son, who was missing for two days. Discuss how you would address the relevant medico-legal issues. (100 marks)

Contd…./2-

PART B

5. A 44-year-old male who had been having a cough for 3 months and headache for 1 week had a respiratory arrest and died following a lumbar puncture. An autopsy was performed and a space occupying lesion was found in the left cerebral hemisphere.

   5.1. List three (03) most likely causes for the space occupying lesion in this patient. (15 marks)

   5.2. Describe the expected macroscopic findings of the **brain** and the **lungs** at autopsy in this patient. (85 marks)

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Date :- 14th October 2014 **Time :-** 1.00 p.m. – 4.00 p.m.

PAPER II

Answer **all** questions.
Write each part in a separate book.
Commence each answer on a separate page.

PART A

1. Describe different types of fractures seen in physical child abuse. (100 marks)

2. Discuss the concept of 'live birth' in relation to infanticide. (100 marks)

3. Describe how early post-mortem changes will help in ascertaining the cause and manner of death. (100 marks)

4. Describe circumstances and clinico-pathological features of acute carbon monoxide poisoning. (100 marks)

5. Discuss the precautions you should take when collecting forensic samples from a woman who is alleged to have been sexually assaulted. (100 marks)

6. Describe the impact of safety mechanisms of modern motor vehicles on the injury pattern of vehicle occupants. (100 marks)

7. Outline the ethical issues associated with normal and complicated pregnancies. (100 marks)

8. Write notes on:
   - 8.1. Contusions of the brain (40 marks)
   - 8.2. Mechanisms of death in acid ingestion (30 marks)
   - 8.3. Positional asphyxia (30 marks)

Contd.../2-

PART B

9.

9.1. Discuss the possible mechanisms of death and the post-mortem findings in the lung of a patient who died of pulmonary thromboembolism. (40 marks)

9.2. Describe the types and pathological features (macroscopy and microscopy) of necrosis, giving examples for each type. (60 marks)

10. Write notes on the clinico-pathological features of the following :

10.1. Liver disease associated with pregnancy. (30 marks)

10.2. Neonatal Respiratory Distress Syndrome. (30 marks)

10.3. Acute Disseminated Intravascular Coagulation (DIC). (40 marks)

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POSTGRADUATE DIPLOMA IN LEGAL MEDICINE EXAMINATION
OCTOBER 2015

Date: 12th October 2015 **Time:** 1.00 p.m. – 4.00 p.m.

Answer **all** questions.
Answer each part in separate books.
Commence each answer on a separate page.
Please write legibly.

PAPER I

PART A

1. An apparently healthy young adult male has died in a remand cell within 24 hours of the arrest. There are allegations against the law enforcement authorities.

   1.1 List the medico-legal issues related to this case. (10marks)

   1.2 Briefly describe the possible circumstances of death. (40 marks)

   1.3 Describe the steps that have to be followed in the medico-legal investigation (including autopsy) to address the above allegations. (50 marks)

2. A dead body of a young person was brought for autopsy with an alleged history of shooting with a smooth bore firearm.

   2.1 Describe the features of skin wounds that should be included in the postmortem report in this case. (40 marks)

   2.2 List five (05) possible medico-legal issues in the case of a murder by shooting. (10 marks)

   2.3 Discuss how you would answer the issues listed in 2.2 at the trial in High Courts. (50 marks)

Contd...../2-

3. The body of a newborn with head injuries was recovered from the squatting pan of an abandoned toilet. The putative (probable) mother of the newborn was also produced by the police.

   3.1 Describe the observations you would make at the scene. (20 marks)

   3.2 Discuss the possible autopsy findings that would help you to arrive at the cause and manner of death. (60 marks)

   3.3 Briefly describe the steps in the examination and investigation of the mother in order to confirm maternity. (20 marks)

4.

   4.1 Explain the terms 'hurt', 'injury' and 'wound/wounding'. (30 marks)

   4.2 Compare and contrast the medico-legal significance of abrasions and contusions, giving examples. (70 marks)

PART B

5. A 48-year-old heavy alcoholic male was admitted to the emergency department with severe abdominal pain of acute onset. Serum amylase level was found to be significantly high. He died in spite of critical care management.

   5.1 Describe the macroscopic findings you would expect in the abdomen during the post mortem examination. (50 marks)

   5.2 Describe the microscopic findings you would expect in the abdominal organs. (50 marks)

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OCTOBER 2015

ıte: 13th October 2015 **Time:** 1.00 p.m. – 4.00 p.m.

Paper II

ıswer **all** questions.
rite each part in a separate book.
ɔmmence each answer on a separate page.

Part A

1. A young adult male was admitted in a state of unconsciousness to the surgical casualty ward with a history of assault with a hammer to the head. Despite neuro-surgical intervention, he died three days later without regaining consciousness. Describe the possible autopsy findings in the head. (100 marks)

2. Describe the medico-legal aspects of consent for surgery. (100 marks)

3. Discuss the significance of presence of diatoms in the bone marrow of a body recovered from water. (100 marks)

4. Describe the exhumation procedure of a body buried within a coffin in a cemetery one year ago. (100 marks)

5. Describe the post-mortem features in a long term cocaine abuser who died of an acute intoxication. (100 marks)

6.
   6.1 List five (05) common complications of fractures. (20 marks)

   6.2 Describe the medico-legal significance of injury to a tooth. (80 marks)

7. Discuss how you, as a Judicial Medical Officer, would ensure that sexual assault forensic examination (SAFE) is conducted in a **victim-friendly manner**. (100 marks)

Contd…./2-

8. Write notes on:

8.1 Concussion (40 marks)

8.2 Autopsy features in starvation (30 marks)

8.3 Dicing injuries (30 marks)

Part B

9. A female patient with long standing uncontrolled diabetes mellitus died following an acute episode of high fever and loin pain. Describe the pathological changes (macroscopic and microscopic) you would expect in the kidneys of the deceased. (100 marks)

10. Write notes on:

10.1 Apoptosis (30 marks)

10.2 Hypertrophic Obstructive Cardiomyopathy (30 marks)

10.3 Cerebral aneurysms (40 marks)