

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (FORENSIC MEDICINE) EXAMINATION
DECEMBER 2025

Date: 19th December 2025

Time: 1.00 p.m. – 4.00 p.m.

SEQ PAPER

Index No.....

Answer **all six (06)** questions.

Answer the questions in the space provided.

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1. Thirty-five school-aged children were placed in a centre operated by an NGO for three months, following a major natural disaster that occurred in Sri Lanka. Several allegations of child maltreatment were made to the State authorities, including the police, regarding this centre.

- 1.1 List five (05) forms of child maltreatment that may be encountered among these children (05 marks)

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As the appointed JMO, you reviewed the complaints and preliminary information provided by the children and decided to proceed with clinical forensic examinations (CFE).

- 1.2 State five (05) ethical aspects relevant to the CFE of these children (15 marks)

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[illegible]

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[illegible]

1.6. State five (05) facts with reasons that need to be highlighted at the meeting regarding the custody of children. (20 marks)

[illegible]

- 2.1 List five (05) medico-legal issues in this case (10 marks)

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2.2 Discuss the possible mechanism of causation for each finding (40 marks)

[illegible]

This image shows a full page of white paper with ten horizontal rows of small black dots, designed for handwriting practice. Each row consists of evenly spaced dots extending across the width of the page. The rows are separated by larger gaps, providing ample space for letter formation and practice. There are no margins, text, or other markings on the page.

This image shows a full page of white paper with horizontal dotted lines, typical of primary school writing paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

2.4 The Human Rights Commission has requested an expert view regarding possible medical negligence at the prison hospital. Analyze the autopsy findings and formulate your opinion on the request made by the human rights commission. (20 marks)

[illegible]

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3.

- 3.1 A 65-year-old man presented to a teaching hospital immediately after acid ingestion. Clinical forensic examination revealed acid burns involving approximately 30% of the total body surface area, predominantly affecting the face and trunk.

3.1.1 List four (04) medicolegal issues in this case (10 marks)

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3.1.2 Describe how would you determine the degree of burns
(15 marks)

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The patient died on the fifth day. Past medical records indicated that he had diabetes mellitus and had defaulted clinic follow-up three months earlier.

3.1.3. Discuss possible mechanisms of death in this victim
(25 marks)

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3.2 A fresh body of a foetus was found at a railway station. The Magistrate ordered you, as the JMO, to conduct the autopsy and clinical examination of the alleged mother.

3.2.1 Describe legal provisions under which the mother could potentially be charged under the Sri Lankan law (15 marks)

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3.2.2 Describe seven (07) possible findings that would link the alleged mother to the foetus. (35 marks)

[illegible]

- 4.1 Discuss the ethical and legal issues that need to be addressed in this case (40 marks)

This image shows a full page of primary-ruled notebook paper. It features multiple sets of horizontal lines designed to guide handwriting. Each set consists of three lines: a solid top line, a dashed middle line, and a dotted bottom line. These sets are repeated vertically down the entire page, providing ample space for practicing letter formation and writing. The paper is otherwise blank, with no margins or additional markings.

Treating physician consults the JMO on the possibility of euthanasia in this case.

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The body of an individual who was alleged to be the driver of this bus, had been recovered at the scene.

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Analysis of the autopsy reports of 45 individuals showed that the injuries findings were due to several different injury dynamics.

- 5.3 Discuss the possible mechanism of causation of these injuries.
(30 marks)

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Two adult victims who were having bilateral femoral fractures, awaiting surgery died unexpectedly on 2nd and 5th days of the accident respectively

- 5.4 List two (02) most likely trauma related causes for death of these two individuals
(10 marks)

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[illegible]

6.1 A partially putrefied body of an adult was found in an illegal cannabis cultivation site near a wildlife sanctuary. Several empty cartridge cases were recovered in close proximity to the body, which was subsequently sent for autopsy examination. External examination revealed multiple circular skin defects, some of which were determined to be post-mortem artefacts.

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[illegible]

[illegible]

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- 6.2 A 22-year-old unmarried female was admitted to the gynaecology ward of a District General Hospital with a two-day history of high fever, lower abdominal pain, and foul-smelling vaginal discharge. On admission to the ETU, her blood pressure was 70/46 mmHg, pulse rate 112/min, respiratory rate 20/min, and temperature 39.2°C. She was pale, confused, and had generalized abdominal tenderness.

She deteriorated rapidly and was transferred to the ICU for management. Despite resuscitation, she died 8 hours after admission.

Investigations on Admission:

Investigation	Result	Normal
Full Blood Count	WBC: $26 \times 10^9/L$ Neutrophils: 92% Platelets: $90 \times 10^9/L$	($4 - 11 \times 10^9/L$), (40- 75%) ($150 - 400 \times 10^9/L$)
CRP	310 mg/L	(< 5 mg /L) ,
Serum Creatinine	185 $\mu\text{mol} /L$	(male – 62-115 $\mu\text{mol}/L$), (female – 53 - 97 $\mu\text{mol} / L$)
Venous Blood Gas	pH: 7.12 HCO_3^- : 12 mmol/L Lactate: 6.8 mmol/L	(7.31 – 7.41) (22 – 28 mmol/L), (0.5 – 2 mmol/ L)

Ultrasound abdomen/pelvis -Uterus bulky, endometrial cavity containing echogenic debris, no foetal parts identified, Mild amount of free fluid in the pelvis

- 6.2.1 Describe the possible pathophysiological mechanisms underlying this condition, based on the clinical presentation and investigative findings (20 marks)

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[illegible]

6.2.2 Describe the expected postmortem findings and results of ancillary investigations in this case (30 marks)

[illegible]

