

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HUMANITIES AND SOCIAL SCIENCES
DEPARTMENT OF LEGAL STUDIES
LL.M IN CRIMINAL JUSTICE ADMINISTRATION
FIRST YEAR- FINAL EXAMINATION - 2022/2023
LLPA 307- CRIMINAL INVESTIGATION II
DURATION: 03 HOURS



Date: 07.10.2023

Time: 09.30 a.m.- 12.30 p.m.

Total No. of Questions: 06

Answer Four (04) questions only.

Select at least two questions from each part.

Candidates will be penalized for illegible handwriting.

Part (A)- Ballistics

- 1) How do you identify or exclude firearms scientifically in a case of shooting, when two fired lead bullets recovered at the post-mortem examination and one “.38 Special Arminius- West German” revolver produced by the Police are available for examination.
(25 Marks)

- 2) a) Explain the “single action firing mechanism” of a revolver. (15 Marks)

 b) What is the difference between,
 .22 Rim-fire misfired cartridge and
 .22 Rim-fire spent cartridge? Explain with diagrammatic illustrations. (10 Marks)

- 3) Explain the automatic firing mechanism of “.50 Browning” anti-aircraft machine gun.
(25 Marks)

Part (B) – Explosives

- 4) a) Can we create energy? - Discuss. How does an explosion occur? Explain briefly. (10 Marks)
- b) How do you mainly classify different types of explosions? (15 Marks)
- 5) a) Explain the chemical explosion process of “Low Explosives” due to combustion reactions, taking Gun- powder as an example. (10 Marks)
- b) What do you mean by “Detonation of High Explosives”? (15 Marks)
- 6) Explain the mechanisms and modifications surfaced with different designs of “Suicide bomb kits/jackets” during the period of LTTE terrorism in Sri Lanka. (25 Marks)

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