

中央警察大學 108 學年度碩士班入學考試試題

所 別：刑事警察研究所

科 目：刑事鑑識概論

作答注意事項：

1. 本試題共 4 題，每題各占 25 分；共 1 頁。
2. 不用抄題，可不按題目次序作答，但應書寫題號。
3. 禁用鉛筆作答，違者不予計分。

一、Regarding forensic DNA typing, please answer the following questions:

- (一) List all the procedure steps, and briefly describe them individually.
- (二) For the sexual assault cases containing mixture of male and female DNA, what DNA extraction strategy should be used to separate male DNA from the female's fraction? Please also depict it briefly.

二、Every gun or car engine that is manufactured has a serial number stamped into the metal frame. Criminals often try to destroy the serial number to prevent police from tracing. Please answer the following questions:

- (一) Describe as much as you know the nondestructive methods to restore obliterated serial number.
- (二) Define and depict the "Removal Depth (RD)".

三、關於藥毒物與酒精之偵查鑑識，請回答下列子題：

- (一) 請解釋 LD₅₀ (Lethal Dose, 50%) ？
- (二) 酒精於體內之代謝產物為何？如何檢測體液中之酒精濃度？

四、關於吸食毒品嫌犯之尿液採樣與檢驗，請回答下列子題：

- (一) 試寫出正常尿液檢體之物理特性。
- (二) 在現場如何判斷尿液檢體是否有被摻假？