

中央警察大學 107 學年度碩士班入學考試試題

所 別：資訊管理研究所

科 目：電腦犯罪與資訊安全

作答注意事項：

1. 本試題共 4 題，每題各占 25 分；共 2 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、請回答下列問題：

- (一) 雲端的電腦犯罪是新興手法之一，說明三種雲端儲存服務軟體，並比較特性與資料儲存方式。(10 分)
- (二) 試舉例說明電腦犯罪在此三種雲端服務軟體平台發生時，各該採取何作為？以順利進行犯罪證據的追蹤與保存，得以還原犯罪現場。(15 分)

二、請回答下列問題：

- (一) 資訊安全的 Feistel 結構為何？說明其特質。(10 分)
- (二) 資訊安全的 HASH 的設計結構為何，說明其特質。並用兩種方式設計資訊安全的 MAC。(15 分)

三、John is a senior citizen from Taipei, Taiwan. Recently, he has noticed that his computer is running slowly. Pop-up advertising appears when he opens his browser and his home page has been changed. He is not sure what is happening, but suspects that his computer has a malware.

- (一) Please translate the above paragraph into Chinese. (10 分)
- (二) What to say when John asks, 'What shall I do?' Please explain more on this issue. (15 分)

四、IoT security (Internet of Things security) is the area of endeavor concerned with safeguarding connected devices and networks in the Internet of things (IoT). Much of the increase in IoT communication comes from computing devices and embedded sensor systems used in industrial machine-to-machine (M2M) communication, smart energy grids, home and building automation, vehicle to vehicle communication and wearable computing devices.

(一) Please translate the above paragraph into Chinese. (10 分)

(二) What are the IoT security problems and challenges? Please explain more on this issue. (15 分)