

# 國立成功大學

## 113學年度碩士班招生考試試題

編 號： 191

系 所： 智慧資訊安全碩士學位學程

科 目： 資訊安全概論

日 期： 0201

節 次： 第 1 節

備 註： 不可使用計算機

編號：191

國立成功大學 113 學年度碩士班招生考試試題

系 所：智慧資訊安全碩士學位學程

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第 1 頁，共 1 頁

※ 考生請注意：本試題不可使用計算機。請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

1. Please explain the concept of "Critical Infrastructure" (5%) and provide five categories based on relevant laws and regulations in Taiwan (5%).
2. Please explain what WAF (Web Application Firewall) is (5%) and provide examples to illustrate its use (5%).
3. Please explain the main purposes of ISO 27001 (3%) and ISO 27701 (3%) and their relationship (4%).
4. Please explain the differences between IDS and IPS (5%), and provide a more detailed explanation of the distinctions between NIDS and HIDS (5%).
5. Please explain the "CIA" Triad (6%) and outline the distinct considerations between its applications in IT (Information Technology) and OT (Operational Technology) contexts (4%).
6. Please attempt to respond to the question, according to the RFC 5424 standard, regarding the Facilities (3%) and Severity (3%) values (including their Numerical Codes) when issuing a log record related to a Warning in the context of a Mail system. What would be the corresponding PRI value (4%)?
7. Please attempt to encode the plaintext "I want to be an outstanding graduate student" using base64 and provide the encoded result. (20%)
8. When tasked with designing a system for storing file samples without relying on file names and considering the mitigation of collision impact as much as possible, how would you approach the design? (20%)