

國立中正大學

112 學年度碩士班招生考試

試題

[第 2 節]

科目名稱	管理資訊系統
系所組別	資訊管理學系-甲組

—作答注意事項—

※作答前請先核對「試題」、「試卷」與「准考證」之系所組別、科目名稱是否相符。

1. 預備鈴響時即可入場，但至考試開始鈴響前，不得翻閱試題，並不得書寫、畫記、作答。
2. 考試開始鈴響時，即可開始作答；考試結束鈴響畢，應即停止作答。
3. 入場後於考試開始 40 分鐘內不得離場。
4. 全部答題均須在試卷（答案卷）作答區內完成。
5. 試卷作答限用藍色或黑色筆（含鉛筆）書寫。
6. 試題須隨試卷繳還。

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本科目共 1 頁 第 1 頁

總共 4 大題，每大題 25 分

1. Regarding the information systems function in an organization, please
 - a. Describe the services provided by the information systems department. (8 分)
 - b. Define and compare the roles played by programmers, system analysts, and business analysts. (8 分)
 - c. Define and compare the roles played by chief information officer (CIO), chief security officer (CSO), chief data officer (CDO), and chief knowledge officer (CKO). (9 分)
2. Regarding the tools and technologies for safeguarding information resources, please
 - a. Name and describe three authentication methods. (8 分)
 - b. Describe the role of encryption and digital certificates in a public key infrastructure. (8 分)
 - c. Describe the roles of firewalls, intrusion detection systems, and intrusion protection systems in promoting security. (9 分)
3. Regarding the computer hardware platforms, please
 - a. Explain how businesses can benefit from virtualization, green computing, and multicore processors. (8 分)
 - b. List the essential characteristics of cloud computing and distinguish between a public cloud and a private cloud. (8 分)
 - c. Identify and describe the security problems posed by cloud computing. (9 分)
4. Regarding information systems development, please
 - a. Define an application software package and explain the advantages and disadvantages of developing information systems based on application software packages. (8 分)
 - b. Define outsourcing and describe the advantages and disadvantages of using outsourcing for building information systems. (8 分)
 - c. Define rapid application development and agile development and explain how they can speed up system building. (9 分)