

考 試 科 目	管理資訊系統	系 所 別	資訊管理系/資管組	考 試 時 間	2 月 6 日(五) 第 4 節
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**Questions:**

1. As mobility systems gradually become connected, autonomous, shared, and electric, how can we align these possibilities with ethical considerations (25%)?

2. Can you explain the long-tail theory and its relevance to recommender systems? What models or solutions will you suggest for recommender systems to handle situations involving new items and new users (25%)?

3. To stay competitive in digital business, many organizations integrate various technological components into unique systems. If a synthesis function defines how the performance of each component contributes to overall system performance, what major forms may this function take (25%)?

4. A university restaurant, frequently used by students and faculty, plans to develop a mobile application to handle order processing, receipt generation, kitchen communication, and management reporting. Based on this scenario, can you draw a use case diagram and data flow diagrams, and clarify any necessary assumptions to support your design logic (25%)?

備 註	一、作答於試題上者，不予計分。 二、試題請隨卷繳交。
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