

佛光人文社會學院九十二學年度碩士班招生考試試題卷

系所別：資訊學系碩士班

科 目：資訊系統

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1. There are several popular methodologies in developing information system software, starting from collecting user requirements to delivering the final product to its user. Please describe any one of the methodologies you are familiar with, including its process, key steps, inter-relationship, input/output data, and any other information you feel important. (25%)
2. What are the differences between traditional structured system development and object-oriented system development? (15%)
3. What are white-box testing and black-box testing? (10%)
4. What is a database? What are the advantages for using database in information systems? (10%)
5. A car insurance company has a set number of customers each of which owns a number of cars. Each car has a number of recorded accidents associated with it. Construct an E-R diagram for this company and transform the diagram to appropriate relational model. Make all assumptions as possible as you can. (20%)
6. Imagine there is a system controlling cash withdrawal from an Automatic Teller Machine (ATM) of a bank. Please create a flow diagram, as detailed as possible, to show the cash withdrawal process starting from someone inserting a cash card into the ATM until completion of the transaction. Be sure to consider as many possibilities as you can such as (i) the input password is wrong, (ii) the card is from a different bank, (iii) the withdrawal amount is more than the account. (20%)