

國立高雄師範大學九十三年度博士班招生考試試題

系所別：科學教育研究所

科目：網路與資料庫導論（全一頁）

1. When transferring a file between two computers, (at least) two acknowledgement strategies are possible. In the first one, the file is chopped up into packets, which are individually acknowledged by the receiver, but the file transfer as a whole is not acknowledged. In the second one, the packets are not acknowledged individually, but the entire file is acknowledged when it arrives. Discuss these two approaches. (20%)

2. 考慮下列供應商與供應零件之關聯式資料庫：

supplier (s-name, city)

part (p-number, city, color)

supply (s-name, p-number, quantity)

請寫出下列 SQL 查詢。

(1) 取得至少供應一種藍色零件的供應商名稱。(10%)

(2) 查出位於同一城市的不同供應商名稱（輸出城市名稱，分行一，分行二）。(10%)

3. Refer to the following table to draw an ER diagram as clear as possible. (10%)

Name	I.D.	Birthday	Age	Telephone	Address
Tom Chen	A123456789	14/02/1968	35	7170001	No.1 Ho Pin Road, Kaohsiung City, Taiwan
Teresa Wang	A123456780	06/09/1971	32	2138888	No.1 Ho Pin Road, Tainan City, Taiwan

4. Refer to the following goods delivery form to draw an ER diagram as clear as possible. (10%)

Tracing_No.	V1230001	Date	12/06/2004	Deliveryman	Tom Chen
Company	PHL Co.	Contact Person	Mr. Wang	Telephone	(H) 7170001 093312345
Address	No.116 Ho Pin First Road, Kaohsiung City, Taiwan				
Goods No.	Name				Amount
PC001	Wireless Card				150
PE003	Switch				30
PC012	Optical Mouse				50

5. Explain what is CSMA/CD. (10%)

6. 試簡述系統安全中的 Access Control 如何進行設計。(10%)

7. 簡述網路上開發管理系統（如：教材庫），其設計網路版與單機版之不同的考量為何？(10%)

8. OKMS (Ontology -based Knowledge Management System) 為何？請描繪出其架構與如何運作。(10%)