

考試日期：100 年 4 月 19 日 (星期二) 第 5 節	※請務必註記，准帶項目打「V」，否則打「X」。					1. 需加發計算紙(B5 白紙)或答案紙請在試題內封袋備註。
本試題共 1 頁，附件共 0 頁，印刷份數：30 份	計算機	課本	筆記	字典 電子辭典	其他	2. 本命題紙為 A4 大小，印刷格式統一由閱場判斷是否放大或合併印刷，如有特殊需求，請註記：
備註：可另攜 A4 筆記 1 張(親筆手寫)	X	X	V	X	X	放大成 B4

1. What is Data Warehouse? (10%)
2. How is a data warehouse different from a database? How are they similar? (10%)
3. What are OLTP and OLAP? What are the differences between OLTP and OLAP? (10%)
4. What is the knowledge discovery (KDD) process? (10%)
5. What are the relationships between Data Warehouse, Data Mining, and Business Intelligence? (10%)
6. What is the typical framework of a data warehouse? What is the multi-tiered architecture of data warehouse? (10%)
7. What is the architecture of a typical data mining system? (10%)
8. Why is data preprocessing important? What are the major tasks in data preprocessing? (10%)
9. What is the conceptual modeling of data warehouses? Please illustrate the major schemas used in data warehouse. (10%)
10. What are the typical OLAP operations in data warehouse? (10%)